

AIM Ann Report
1971 to 1972

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AUCKLAND INSTITUTE AND MUSEUM

ANNUAL REPORT

HALL OF
NEW ZEALAND BIRDS



ANTARCTIC BIRDS



1971-72

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Cover: The Hall of New Zealand Birds, opened on 10th April, 1972
Vahry photo

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**ANNUAL REPORT
AUCKLAND INSTITUTE
AND MUSEUM**

1971-72

For presentation at the Annual General
Meeting to be held on 26th June, 1972

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Staff of the Museum

Director	E. G. TURBOTT, M.SC., F.M.A.N.Z.
Assistant Director and Curator of Applied Arts	T. J. BAYLISS
Ethnologist	D. R. SIMMONS, M.A.
E. Earle Vaile Archaeologist	JANET M. DAVIDSON, M.A.
Recorder (Ethnology)	K. PATRICIA PATERSON
Recorder, Colonial Section	AUDREY McBIRNEY
Botanist	A. E. ORCHARD, B.SC. (HONS.)
Assistant Botanist	JEANNE H. GOULDING
Associate Botanist	PHYLLIS HYNES
Hon. Botanist	LUCY CRANWELL SMITH, M.A., D.SC., F.I.S., F.R.S.N.Z.
Entomologist	K. A. J. WISE
Recorder (Entomology)	JANET M. GURR
Malacologist	W. O. CERNOHORSKY
Research Associate in Mollusca	A. W. B. POWELL, HON. D.SC., F.R.S.N.Z., F.M.A.N.Z.
Marine Biologist	A. B. STEPHENSON, M.SC.
Associate Ornithologists	H. R. MCKENZIE
Hon. Curator of English China	SYLVIA REED
Hon. Curator of Textiles	C. REGINALD FORD, F.R.I.B.A., F.R.G.S.
Librarian	JUDY SMITH
Assistant Librarian	I. G. THWAITES, B.A., DIP.N.Z.L.S., A.N.Z.L.A.
Library Assistant	NOLA V. ARTHUR, N.Z.L.A. CERT.
Library Assistant (Clerical)	ROBYN TUCKER
Extension Service Officer	SHIRLEY CHAPMAN
Planetarium Lecturer	J. H. WADHAM, B.SC.
Assistant Planetarium Lecturer	R. A. MCINTOSH, F.R.A.S., F.R.A.S.N.Z.
Preparator	J. B. ORR
Assistant Preparator	L. J. CAPPEL, DIP. I.A.C. (AMST.)
Staff Artist	CHRISTINE CONDON
Art Assistant	BETTY BROOKES
Education Officer	JOCELYN BERTRAND
Assistant Education Officers	W. K. A. BERRY, DIP. TCHG., DIP. ED.
Artist-Technician (Education Section)	B. H. CADMAN, B.A.
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Supervisor	BETTY DINGLE
Cabinetmaker	MARGARET WOOLLOXALL
Hand (Maintenance)	R. C. H. HENSEN
Cleaners	T. BOGDALSKI
	H. J. ROWE
	E. B. SMITH
	R. MILLER
	C. STEVENS

Museum Shop:

MYRA ALEXANDER (Manager), MARGARET BOND, JANE MASON,
AINSLEY RUSSELL, REBECCA TUMAHAI, NANDA WATSON

Coffee Lounge:

MAY EICHLER (Manager), MARY MCSWEENEY (Assistant Manager),
EDITH CAMERON, KATHLEEN SEMARK

Attendants:

E. SOUTHWORTH (Senior), N. E. CARTER, T. COKER, J. DE ROO,
B. HAMLET, R. C. LLOYD, S. MCQUOID, J. E. MILLS, J. P.
THOMSON, J. P. WALDEN, N. WALLACE

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DR H. C. HOLLAND, O.B.E., F.R.I.C.

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MRS W. M. HOLLAND

Representatives of Local Authorities:

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J.P., MR R. W. CHARLTON, M.Sc., DIP. MATHS. (LOND.), MR E. C. CLARKE,
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J.P., MR T. R. WOOLLIAMS

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Representative on Member Bodies' Committee, Royal Society of New Zealand:
DR P. J. BROOK

Director:
E. G. TURBOTT, M.Sc., F.M.A.N.Z.

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PRESIDENTS OF THE AUCKLAND INSTITUTE AND MUSEUM



1867	F. Whitaker	1902	Dr. E. Roberton
1869	Hon. T. B. Gillies	1903	Professor A. P. W. Thomas
1870	Rev. Dr. A. G. Purchas	1906	Professor F. D. Brown
1871	T. Heale	1907	E. V. Milier
1873	Hon. T. B. Gillies	1909	Professor C. W. Egerton
1874	Sir G. A. Arney	1910	Dr. R. Briffault
1875	J. C. Firth	1911	J. H. Upton
1876	Hon. T. B. Gillies	1912	Professor H. W. Segar
1877	R. C. Barstow	1913	C. J. Parr
1878	T. Heale	1915	Hon. Sir E. Mitchelson
1879	Rev. Dr. A. G. Purchas	1917	J. H. Gunson
1881	T. Peacock	1926	H. E. Vaile
1882	E. A. MacKechnie	1931	Alfd. G. Lunn
1883	Rt. Rev. Dr. W. G. Cowie	1933	Professor H. W. Segar
1884	H. G. Seth Smith	1934	Sir Cecil Leys
1885	J. A. Pond	1935	A. T. Pycroft
1886	Professor F. D. Brown	1936	Sir Carrick Robertson
1887	Professor A. P. W. Thomas	1938	C. Reginald Ford
1888	S. Percy Smith	1940	Dr. W. A. Fairclough
1889	J. Martin	1942	A. H. Johnstone
1890	J. Stewart	1944	J. C. Rennie
1891	Professor F. D. Brown	1947	Hon. T. Bloodworth
1893	Professor C. A. M. Pond	1949	F. L. G. West
1894	J. H. Upton	1952	Professor L. H. Briggs
1895	Professor A. P. W. Thomas	1955	J. W. Kealy
1896	D. Petrie	1958	J. H. Rose
1897	Dr. E. Roberton	1961	John Seabrook
1898	Prof. H. A. Talbot-Tubbs	1964	S. G. Brooker
1899	J. Batger	1967	Dr. H. C. Holland
1900	Professor H. W. Segar	1970	Lt.-Col. A. R. Hughes
1901	J. Stewart		



DIRECTOR EMERITUS

Sir Gilbert Archey, C.B.E., F.R.S.N.Z.

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REPORTS TO MEMBERS

President

The opening of the City centenary special lecture series "Auckland Yesterday and Tomorrow" was mentioned in last year's Report; the series proved most successful, excellent attendances being recorded at most lectures.

We were again honoured to make the Auditorium available for the Investiture held on Friday, 7th April, 1972, by His Excellency the Governor-General, Sir Arthur Porritt, Bt, G.C.M.G., G.C.V.O., C.B.E.

Organisations making use of the facilities provided by the Auditorium included the Asia-Pacific Academy of Ophthalmology, whose Congress used the Auditorium for professional sessions during the six days 9th-14th April; in addition, Congress scientific displays, and a trade exhibition, including equipment and products, were staged in the Exhibition Hall.

Strenuous efforts by all concerned enabled us to open the new Hall of New Zealand Birds to the public on 10th April, 1972. We were most grateful to His Excellency the British High Commissioner in New Zealand, Sir Arthur Galsworthy, K.C.M.G., for coming to Auckland for the function and for declaring the Hall officially open.

The Hall, which occupies the last section of the Second World War extensions not previously developed, comprises an almost complete series of New Zealand birds for identification — including a number (especially petrels and waders) which it had not been possible to show for some years because of restricted space in the previous Hall. In addition, the much improved display techniques, especially the use of case lighting, and the inclusion of a series of modern life-sized dioramas, have much enhanced the collections and increased their value for both Museum visitors and school classes. Of the total of fourteen dioramas, only eight could be completed in time for opening, but work on the remaining installations is already in progress, and it is hoped that the greater part of the work will be finished this year.

The plans for the Hall were drawn up under the supervision of the Director, Mr Turbott, the design for the ground plan and installations being prepared by Mr Cappel. Members will wish to join in expressing congratulations to Mr Turbott and Mr Cappel on this important addition to the Museum's public galleries.

In addition a considerable section of the staff participated in the work: those working full time or on extensive sections of the project were Mrs C. Condon (Assistant Preparator) (from her appointment in August, 1971), Miss J. Bertrand (Art Assistant) and Mr T. Bogdalski (Cabinetmaker). Mrs B. Brookes (Staff Artist) also contributed at several stages of the work, while Mr H. R. McKenzie and Mrs M.

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Reed (Associate Ornithologists) assisted with the sorting of bird material. I have pleasure on behalf of members in conveying to all of these, and to the contractors responsible for the various installations in the Hall, warm congratulations and appreciation. Further details of the project are given by Mr Turbott in his report below.

The installation of the Hall, involving high capital costs, was only possible through the generous contributions received from two institutions to whom we have been indebted in the past on a number of occasions, the Sir John Logan Campbell Trust and the Trustees of the Auckland Savings Bank. I gladly take this opportunity of again recording our appreciation of total contributions from the Sir John Logan Campbell Trust of \$10,300, and from the Auckland Savings Bank of \$4,500 towards the Hall. I have pleasure in further expressing our thanks to an anonymous donor for a most welcome contribution of \$450 to meet the costs of the equipment required for the installation of the taped sound effects.

As mentioned last year, the former New Zealand Bird Hall will now be occupied by the Disney Hall of English Furniture, and the work of installation is already in progress.

Members will note from staff reports that, in addition to the work on the Bird Hall, steady development has occurred in nearly all display sections during the year. Special mention may be made of the reorganisation in the Hall of South Pacific Ethnology undertaken by Mr Bayliss in co-operation with Mr Simmons and Mrs Brookes; this has included renovations and improvements in all wall cases, a rearrangement of the centre of the Hall to include standing sculptures, and the re-siting in a permanent position at the end of the Hall of the Museum's notable Nukuoro figure.

It is of interest, too, that the year has seen almost continuous occupation of the Special Exhibition Hall, either by our own or by outside exhibitions, while as mentioned in individual reports, several special exhibitions were housed in the display halls.

Awards

At the last Annual General Meeting, members elected Mr Kenneth B. Myers, M.B.E., the Chairman of the Museum's Trust Board, to Honorary Life Membership. Mr Myers has been Chairman since 31st May, 1955, and was originally appointed to the Board by resolution of the Council in 1938. He was a member of the Auckland War Memorial Committee responsible for the establishment of the Second World War additions to the Museum in 1960, and a Sponsor of the Auditorium Appeal. Members will wish me to express again on their behalf appreciation of Mr Myers long period of service, and of his personal interest in the work of the Museum.

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The Fellowship of the Royal Society of New Zealand was this year awarded to Dr W. A. McGillivray, one of the nominees of our own Fellowship Committee, and we extend cordial congratulations to Dr McGillivray on his award.

Council

There was no change in the membership of the Council at the last Annual General Meeting, and we welcome the following three members for a further term: Mr M. A. Pattison, Dr E. H. Roche and Mr R. E. Thomas.

Following the Local Authority elections in October, 1971, Mrs Holland, Mr Ferguson and Mr Tongue were reappointed as Auckland City Council representatives. Elections held in December under the War Memorial Museum Maintenance Amendment Act resulted in the return of the following Local Authority representatives: Mr M. N. Kearney (northern provincial Authorities); Mr W. N. Hutchinson (sitting member) (North Shore Authorities); Messrs C. R. Bach (sitting member), C. G. Beer, H. E. Campin (sitting member), R. W. Charlton, E. C. Clarke and F. C. McGehan (southern metropolitan Authorities); and Mr T. R. Woolliams (southern provincial Authorities). All are welcomed to their seats on the Council, and we wish at the same time to extend thanks to Mr J. G. Male (northern provincial Authorities), to Mrs N. J. Canning, Miss M. H. McCulloch and Messrs H. A. Jackson and F. R. Trevarthen (southern metropolitan Authorities), and to Mr R. Campbell (southern provincial Authorities) who made a much appreciated contribution to the Museum's work during their term on the Council.

Staff

In December Council appointed to the post of Botanist Mr A. E. Orchard, B.Sc. (Honours), of the Department of Botany, University of Adelaide. Mr Orchard has had considerable experience in herbarium work, as well as in University teaching, and is well qualified to take charge of the Museum's important Cheeseman Herbarium. Mr Orchard took up his duties on 24th March, 1972, and we have much pleasure in welcoming him to his post.

On 31st January, 1972, Mr R. A. Scobie retired as Education Officer after 34 years in this position. Mr Scobie's service included the War years, when he saw active service with the New Zealand forces in North Africa; following demobilisation he proceeded to post-graduate study at the University of London. He was one of the four original Education Officers appointed to the main New Zealand museums under the Carnegie Scheme in 1938, and under his capable leadership the Museum's School Service has grown to be a successful and well recognised part of our community activities in both city and province. From one Education Officer at the time of the estab-

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lishment of the Service, the section has grown to a total of three teachers and an artist-technician. I have much pleasure in conveying to Mr Scobie the best wishes of Council and members on his retirement.

Mr W. K. A. Berry, Dip. Tchg., Dip. Ed., was appointed by the Education Board to succeed Mr Scobie, and we are pleased to welcome him on taking up his post. Mr Berry is widely experienced in both primary and post-primary teaching, and well qualified to encourage close co-operation between the teaching service and our active Education Section.

The resignations of two members of the Library staff on a part-time basis, Mrs A. Spear (Orders Assistant) and Mrs J. Mogford (Curator of Photographs), were received with regret in October, 1971. Both had given valuable service over some four years, Mrs Spear in the development of an efficient acquisitions system, and Mrs Mogford in the expansion of the Photographic Section and improving cataloguing and housing.

The volume of urgent work on the Hall of New Zealand Birds during the year made it necessary for us to add to the display staff, Mrs C. Condon being appointed in August, 1971, as Assistant Preparator.

Membership

The roll has changed as follows:

	As at 31/3/71	As at 31/3/72
Life Members	434	451
Ordinary Members	870	882
	<hr/>	<hr/>
	1,304	1,333
	<hr/>	<hr/>

Obituary

The death of the following is recorded with regret: The Rt. Hon. Sir Harold Barrowclough, K.C.M.G., C.B., D.S.O., M.C., Mr J. Maxwell Clarke, Mr B. P. Coleman, Mr A. A. Dignan, Sir James Donald, Miss C. Elder, Mrs L. Flower, Mr R. T. Garlick, Miss E. Gow, Mr W. Wallace Gunson, Dr H. M. Hay, Dr L. R. Kidd, Mr C. A. Low, Mr A. G. Menzies, Mr N. F. Oram, Mr A. T. Pycroft, Mr F. A. Tocker, Mr W. M. Tongue, Mr C. Watt, Mr F. O.S. Wheeler, Mr B. G. Winstone.

The Right Honourable Sir Harold Barrowclough, who died on 4th March, 1972, was elected to Honorary Life Membership in 1967. His long-standing interest in the Museum extended over the period of the appeals for both War Memorial buildings, and he was a member of the Auckland War Memorial Committee set up to plan the Second World War extensions and a Trustee of the Memorial Fund; he was a

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Sponsor for the recent Auditorium Appeal. In August, 1971, some months before his death, Sir Harold had presented to the Museum his portrait in oils by William Dargie, and Council had received the portrait with much pleasure as a permanent addition to the War Section. Sir Harold had through his interest and support greatly advanced our work, and it was felt fitting that his funeral service should be held in the War Memorial Museum Auditorium.

With the death of Mr A. T. Pycroft at the age of 96 on 8th November, 1971, the Museum lost one of its oldest members, and a past-President and member of the Trust Board. Mr Pycroft had joined the Institute in 1896; he served on our Council for 41 years, and was President in 1935 and subsequently Vice-President. He was elected to the Trust Board in 1946, and was a member up to the time of his death. Mr Pycroft was well known as an ornithologist and writer on natural history; in addition to his numerous contributions to the natural history and ethnology collections, and to the Library, he participated in the Museum's search for moa remains in the Waikaremoana and King Country areas as a member of the "Moa Searching Committee", which also included Sir Gilbert Archey, Sir Frank Mappin and the late Sir Carrick Robertson. Mr Pycroft was a regular visitor to the Museum and user of the Library, and he will be much missed by both Council and staff.

The late Mr W. M. Tongue had been an active member of the Museum Council up to his death on 1st May, 1972. Mr Tongue was first appointed to our Council as an Auckland City Council representative in 1959; he gave much-appreciated assistance during the period of preparation of the present Maintenance Amendment Act, and subsequently served as one of the three Auckland City Council representatives appointed under the Act. He was a member of Council's Finance Committee.

Gifts

As mentioned above, much appreciated gifts towards the installation costs of the Hall of New Zealand Birds were received from the Sir John Logan Campbell Trust and the Auckland Savings Bank; the totals received in the present year were — Sir John Logan Campbell Trust, \$4,300; Auckland Savings Bank, \$3,500. We have pleasure in expressing thanks on behalf of all members for this most generous response to our request for assistance in the establishment of the new Hall. Our thanks are also again recorded for an anonymous gift this year of \$450 for sound equipment for the Hall.

We acknowledge also monetary contributions from the Auckland Festival Society, Auckland Maritime Society, Australia and New Zealand Savings Bank Ltd, Avon Fine Prints, Charles Haines Ltd, Miss R. B. Hellaby, Ikebana Foundation, F. E. Jackson and Sons Ltd, and Mr C. le G. Gardner.

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Local Authority Contributions

R.S.N.Z. Captain James Cook Fellow

The second year of Dr Roger Green's Fellowship was spent partly at the Museum in the processing of results and preparation for further field work, and partly (June - September, 1971) on three field projects in the Solomon Islands. Dr Green reports briefly that he is working on a basic hypothesis suggesting that the ancestors of pre-Polynesians were a maritime oriented people who traded widely throughout Eastern Melanesia from New Britain and New Ireland to Fiji. Because of their knowledge of oceanic sailing they were able to move in a relatively short span of time in about 1000 B.C. from one end of the Melanesian area to the other; on arrival in the isolated and as yet unsettled area of Tonga, one group developed during the next 1000 years a culture which can now be demonstrated to have evolved into the ancestral Polynesian pattern. Another group with a different history became the ancestral Fijians. Further, as the result of a project on San Cristobal, in the Solomons, Dr Green has been able to show that one ship of the Mendana Expedition of 1595 A.D. did, indeed, return to the Solomons.

We were pleased to learn from the Society early last year that Dr Green had been granted an extended term, and will now be working at the Museum until February, 1973.

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Conservation

As mentioned by Miss Davidson in her report, the main action taken with respect to the preservation of historic and archaeological sites has been the providing of reports and recommendations for the Mt Wellington Borough Council on the proposal to construct a road on Mt Wellington, and information assembled at the request of the Auckland Harbour Board on the Kauri Point pa site. In both cases close co-operation by the Local Authority was much appreciated, and it has been possible in each case to carry out field work which has assisted greatly in the preparation of the reports.

Information was provided by Miss Davidson to assist with the preparation of District Schemes, under the Town and Country Planning Act, 1953, for the Whangarei County Council and Coromandel County Council.

The Conservation Committee has continued to keep closely in touch with bodies studying proposals for Waitemata Harbour development. The Committee has reported to Council on a document prepared by the newly formed Royal Society of New Zealand National Committee for Problems of the Environment and, more recently, on moves to establish a Marine Reserve surrounding the Poor Knights group.

Work of the Museum

Two of the more recently established activities, the Shop and Coffee Lounge, continue to provide much-needed services for our visitors, and it is with pleasure that congratulations on the standard maintained are conveyed to the respective managers, Mrs M. W. Alexander and Mrs M. Eichler, and to their staffs. The Director, Mr Turbott, and members of the staff responsible for the various departments, give details of progress in all sections of the Museum, and we wish to compliment Mr Turbott and his staff on the work achieved throughout in the past year.

We have again attained a record attendance for the year (1st April - 31st March), figures for the past three years being as follows:

1969-70: 455,023.

1970-71: 527,221.

1971-72: 734,808.

A. R. HUGHES

Chairman of the Trust Board

There was unfortunately some delay following the period of last year's report in the project to build on one of the Vaile Endowment properties. It was necessary for the Board to find a new prospective tenant and to negotiate concerning the proposed building at some length, but these negotiations are now at the final stage. The

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project also required the purchase of land adjacent to the existing property, and this was satisfactorily concluded.

Several of the remaining Vaile properties have needed fairly extensive maintenance during the year, this work having been carried out under the supervision of Mr Hensen.

The total of invested funds at present is \$381,908.

In November the Auditorium Fund was closed, the balance being used towards the cost of acoustic treatment and other improvements required in the Museum Schoolroom.

KENNETH B. MYERS

Director

Institute Lectures

Thanks are due to the participants in our special City of Auckland Centennial programme: His Worship the Mayor, Sir Dove-Myer Robinson, "The Development and Future of the City"; Professor J. C. Reid, "The Contribution of the Arts"; Dr Alice M. Bush, "The Family, Yesterday, Today and Tomorrow"; Mr A. E. Esler, "The Living Landscape"; Dr R. E. Wright-St. Clair, "Medicine and Health"; Dr H. C. Holland, "The Growth and Future of Industry"; The Rt Rev. Manu Bennett, Bishop of Aotearoa, "Maori and European, Past and Future"; and Mr E. G. Turbott, "Museums in the Community". Much attention was attracted by the series, and attendances were well maintained (average 127).

The Royal Society of New Zealand Cockayne Memorial Lecture was delivered by Professor G. T. S. Baylis on Monday, 14th June; Professor Baylis' title was "Endogone, the Essential Symbiont in Podocarp Forest".

On 23rd September the 1971 Rutherford Memorial Lecturer, Professor P. H. Fowler, F.R.S., spoke on "Evolution of Elements". Professor Fowler, a grandson of the late Lord Rutherford, also lectured during his New Zealand tour at Nelson on 30th August, the centenary of Lord Rutherford's birth.

Lectures held jointly with kindred bodies were: "Southeast Solomons Prehistory: How Does One Plan Research in a Difficult and Unknown Area?" by Dr Roger C. Green, R.S.N.Z. Captain James Cook Fellow, on 13th May, 1971 (with New Zealand Archaeological Association); and "The Maori — Changing and Changeless", on 13th September, by Mr H. D. B. Dansey (jointly with Anthropology and Maori Studies Section). The latter lecture was the first of the Roger Buddle Memorial Lectures, a series to be held as mentioned in the Section's Report last year annually in conjunction with the Institute.

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Hall of New Zealand Birds

Past reports have provided details of certain aspects of work on the new Hall, and only a brief outline of the more important display features need be added here.

As mentioned in the President's report above, it was not possible to finish the complete series of fourteen dioramas upon opening, six still remaining for completion. Included in the latter was the Hall's "feature diorama" (i.e., diorama occupying the centre of the vista seen from the entrance) to show forest birds of Little Barrier Island; however, before opening Mr Cappel had drafted the scene for the diorama and blocked in the main elements of the background. Three of the remaining dioramas — pied shag, spotted shag and kiwi — involve only the modification of existing groups, but in the case of the remaining three — Little Barrier, Hauraki Gulf gannetry and swamp inset — new foregrounds will be required.

Work still outstanding includes, in addition to the above dioramas, the installation of introductory cases on bird biology, migration and biogeographic relationships.

Mr Cappel's ground plan for the Hall breaks up the floor space into four main alcoves housing respectively: sea birds, forest birds, birds of town and country today, and birds of shore and swamp. Each alcove contains at least one main diorama, while smaller dioramas or insets are included at intervals throughout the identification series. It will be noted that the arrangement overall is ecological; both in emphasis within individual panels and in label text, care has been taken to highlight the birds of Auckland and adjacent areas. The moas and other pre-European birds are included in the bay containing "Birds of Town and Country Today" — and this allows for a contrast to be drawn between the effect of Polynesian man, and later of European man, upon the bird fauna. Finally, the Hall includes sections on birds of the antarctic and subantarctic, and of the Kermadec Islands.

Lighting installations comprise the special effects required for the dioramas and the utility illumination of the identification panels, the latter consisting of standard fluorescent tubes above an obscure glass case-roof; a special feature is the installation of remote ballasts, greatly reducing heat and providing for ease of service. Access is obtained to fluorescent tubes through a flap above the glass case front. The high windows have been curtained with a moderately-dense material, providing for reduced daylight although not total darkness in the Hall.

Sound effects had been installed in only one case at the time of opening — the white-fronted tern diorama; however, provision has been made for sound installations at at least three other points in the Hall. The master unit is a four-track tape player, incorporating four independent amplifiers. We are much indebted to the Wildlife Service,

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Listening to sound effects at the white-fronted tern diorama in the new Bird Hall

Vahry photo

Department of Internal Affairs, for permission to use dubbed copies of taped bird calls for this purpose.

The general construction of showcases and partitions has been fully described in past Reports. The main diorama cases are built of wood, with plate-glass case fronts held in steel frames. Identification cases consist of a full steel structure with wooden panelling. All case fronts are hinged at the top; however, the three largest cases (two

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containing moas, and the case for the Little Barrier diorama) have fixed glass fronts.

The following contractors participated at various stages of the installation: Steel Construction Ltd (wooden frames and partitions); ANZ Engineering Co. Ltd (R. J. Vaassen) (steel framing); R. A. Stanborough and Son Ltd (plaster domes and partitions); Wellesley Carpet Co. Ltd (flooring); J. R. Webb and Son Ltd (painting); Eden Radio Service (sound system).

Finally, it is with pleasure that thanks are expressed to Mrs Lois Wagener, who skilfully assembled a skeleton of *Aptornis otidiformis* (extinct giant woodhen) for the case of pre-European birds; Mrs Wagener has also undertaken to prepare skeletons of the extinct swan and extinct Chatham Island rail (*Diaphorapteryx*) for exhibition later in the same display. The skeletons were received on exchange from Canterbury Museum, and thanks are due to the Osteologist, Mr R. J. Scarlett, for so kindly choosing suitable skeletons and arranging the exchange.

General Display Work in Halls

Improvements and renovations have been carried out at a number of points. The main effort has been in the Hall of South Pacific Ethnology, and in East and West Maori Halls, and has consisted of a general upgrading of backgrounds and labels, and in some cases reorganisation of material; reference is made by the President (see above) to the extensive rearrangement completed in the South Pacific Hall. In the Maori Hall East the two cases showing the *hei-tiki* have been reorganised to include a comparison of regional differences in design. In addition, panels of dogskin, flax and feather cloaks, Maori pastimes, musical instruments and burial chests have been renewed; and displays of 18th-20th century Maori costumes and Northland carving forms have been installed. Two displays in the Maori Hall West have been renovated and reorganised (fish hooks, eel traps).

In the Maori Court new lighting has been installed in the two panels showing the Kaitaia lintel and other important carvings, and a rearrangement of the carvings made.

In all cases the improvements in these sections have been planned by Mr Bayliss in co-operation with Mr Simmons, the work of installation having been carried out by Mrs Brookes; Miss Bertrand has given assistance from time to time in the preparation of labels.

A new installation in place of the old "Treasures of the Museum" case — opposite rear entrance of Coffee Lounge — shows the Museum's comparatively small series of pre-Columbian American Indian objects. Again this has been prepared jointly by Mr Bayliss and Mr Simmons, with time scales and labels by Mrs Brookes.

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Turning to other sections, a four-panel display, "Arts of the Mariner", was set up in the Maritime Hall in June, 1971, by Mr Stephenson and Mrs Brookes: this shows a selection of the Museum's collection of scrimshaw, together with knots, splices and an historical treatment of the figurehead and other decorative arts of the mariner. Much-appreciated assistance with funds from the Auckland Maritime Society enabled us to obtain the services of Mr E. T. Fairburn, to carry out repairs and renovations to certain important ship models. Models dealt with by Mr Fairburn during the year were s.s. *Kaikoura* and R.M.S. *Niagara*; it is hoped later to carry out renovations, mainly minor, to 12 additional models. The work includes treatment of corrosion, and treatment or replacement of rigging and fittings. We are most grateful to Mr Fairburn for his skilled work on this project and to the Society for its generous assistance.

In the Hall of Fishes and Whales Mr Stephenson has installed a set of whaling gear, and supervised the installation of a bricked-up tryptot as used both on the New Zealand coast at shore whaling stations and on whale-ships of the period; construction of the installation was by Mr H. Rowe. In the same Hall improved housing has been installed for the reconstructed pigmy right whale head.

Special Exhibitions

The Hall was occupied as usual in the second term holidays by the Auckland Science Exhibition (20th - 29th August). This was followed by two exhibitions in September: the exhibition of salon prints arranged by the Auckland Photographic Society to coincide with the International Exhibition of colour slides (the latter held in the Auditorium); and a display dealing with waste disposal arranged by the Auckland Civic Trust for the period of Anti-Litter Week. These were followed from 17th to 26th October by the Auckland Studio Potters' 9th Annual Exhibition.

The City Centennial Exhibition of gardening and flower arrangement was staged by the Auckland Horticultural Council from 5th to 7th November; a further exhibition of salon prints assembled by the Auckland Photographic Society was shown 13th - 21st November.

Two small special exhibitions were shown on the First Floor, adjacent to the Applied Arts galleries: firstly, the display of hand-made lace, together with a range of lace-making implements, assembled by Mrs Judy Smith (24th August - 10th September); and, second, the Handweavers Guild's annual show of work, exhibited over the Christmas holiday period. Arrangements for both exhibitions were in the hands of Mr Bayliss; the Western District Lacemakers' Guild set up a gallery display during the Lace Exhibition, and this attracted much interest.

On the arrival of the collection of Korean furniture and ceramics deposited by Squadron-Leader P. Rule (see Mr Bayliss' report), an

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extensive temporary display of this material — against the background of a number of the Museum's Persian carpets — was set up by Mr Bayliss in cases in the old Bird Hall emptied as bird displays were transferred to the new Hall; this continued on show until the start of work on the new Disney Hall of English Furniture.

Mr Bayliss has continued to show important new items in the "Recent Accessions" case (immediately to left inside the main entrance).

Activities in the Provincial Area

In addition to continued help to local museums in various centres, Mr Bayliss, Mr Simmons and the Director visited Whakatane during the year to advise on design and installations for the new Whakatane and District Museum during the construction period. The Museum was officially opened on 26th February, 1972. Under its constitution the Board of Control includes one representative of the Institute and Museum, the Director being appointed by Council to this post.

Ornithology Department

During the year Mrs M. Reed was appointed to assist in the Department part-time. It is with pleasure that acknowledgment is made both to Mr McKenzie and to Mrs Reed, who as Associate Ornithologists have maintained all routine activities of the Department, including the handling of numerous inquiries. In addition, the work on the new Hall involved much checking and sorting, and the assistance given by Mr McKenzie and Mrs Reed in this respect was most helpful.

Publications

Titles in this year's *Records* (Vol. 8: 17th December, 1971) were as follows:

- "Excavations on Ruarangi Pa (Site N20/41), Whangarei, New Zealand", by Molly P. Hougaard.
- "The burial system at Ruarangi burial ground", by R. S. Oppenheim.
- "The dentition of the Maori dog of New Zealand", by Jan Allo.
- "Anthropomorphic stone pounders in New Zealand", by D. R. Simmons.
- "Identification of archaeological and ethnological specimens of fibre-plant material used by the Maori", by Jeanne H. Goulding.
- "Fossil and Recent Cypraeacea (Mollusca: Gastropoda) of New Zealand with descriptions of new species", by W. O. Cernohorsky.

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- "New molluscan species of *Strombus* (Strombidae) and *Cancilla* (Mitridae) from New Britain and Taiwan", by W. O. Cernohorsky.
- "Indo-Pacific Pisaniinae (Mollusca: Gastropoda) and related buccinid genera", by W. O. Cernohorsky.
- "The family Naticidae (Mollusca: Gastropoda) in the Fiji Islands", by W. O. Cernohorsky.
- "New Zealand molluscan systematics with descriptions of new species: Part 7", by A. W. B. Powell.
- "Tu'i Malila, 'Cook's tortoise'", by Joan Robb and E. G. Turbott.
- "Further new records of fish in New Zealand waters", by A. B. Stephenson.

Bulletin No. 9, "Archaeology on Nukuoro Atoll: a Polynesian outlier in the eastern Caroline Islands", by Janet M. Davidson (108 pp.) was published on 22nd December, 1971. Congratulations are extended to Miss Davidson on this contribution, based upon her expedition to Nukuoro in 1965 under a Bishop Museum-Wenner Gren Foundation grant.

Following the resignation of Dr Cooper the editorship of the *Records, Bulletins and Annual Report* was taken over by Mr Wise. All will wish to join in congratulating him on the high standard of style and format of the above issues.

E. G. TURBOTT

Anthropology and Maori Studies Section

The Section has had a varied and interesting programme during the year. The subjects were mainly concerned with the Pacific Islands, with Professor Biggs talking on his fieldwork in Futuna, Mr P. Sharples giving an excellent talk on the Tokelau Islands, and Miss Janet Davidson discussing the Sepik River in the twentieth century. In May, members of the Section joined with the New Zealand Archaeological Association Conference in attending lectures and participating in field trips around Auckland's prehistoric sites. These complemented lectures and guided tours to members of the Section in the Museum.

The high point of the year's programme was the newly instituted Buddle Memorial Lecture in association with the Auckland Institute. This annual lecture, in memory of Surgeon Commander Roger Buddle, was inaugurated this year, the guest speaker being Mr Harry Dansey, speaking on "The Maori Changing and Changeless".

In October the Section formally visited Orakei Marae, with the *whai-korero* for their party given by Mr Tamati Reedy and Mr D. Simmons. Casts of the Ngati Whatua carvings from Otakanini in the Museum were formally presented to the elders as an inspiration to the carvers preparing themselves for work on the projected meeting house.

Officers of the Section were: Patron, Dr J. Metge; Chairman,

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Mr E. Grimes; Secretary, Mr D. R. Simmons; Treasurer, Mr J. T. Diamond; Committee, Professor R. Piddington, Dr R. Walker, Miss I. Hamilton, Messrs R. Scobie and J. Webster.

D. R. SIMMONS

Astronomical Section (Auckland Astronomical Society)

This year, 1972, marks the fiftieth anniversary of the founding of the Auckland Astronomical Society and it is pleasing to be able to report that the Society's membership is stronger than at any stage in the past; that its activities are more diverse; and it seems likely that this trend will continue.

The membership stands at 325, of whom 110 are Juniors. Meetings are held at the Auckland Observatory; juniors meet separately. During the past year speakers have included Dr David Allen, Carnegie Fellow at the Hale Observatories (Palomar and Mt Wilson), Mr T. E. Cragg, of Mt Wilson Observatory, and Dr Noel Doughty, of Mt John Observatory.

The Society's Journal has been published bi-monthly and now includes a specialist section for the discussion of astronomical instruments, technique and observations. Publications also included a special 48-page booklet "Mars 1971", to coincide with the recent close approach of that planet.

The Society helps to operate the Auckland Observatory and has been especially concerned with educational and research activities. Public nights are held at the Observatory, One Tree Hill Domain, each week. These include lectures by society members, films, and observation with the 50cm telescope. The programme is changed each month.

Formal lectures are presented to schoolchildren on one evening a week during the first school term; similar lectures are presented during school hours by arrangement. As well as these, Society members present a two-year astronomy course in conjunction with the Department of Continuing Education, University of Auckland.

Research activities at the Observatory are being well supported, and well established techniques are now producing valuable observations. Almost all observations are made using three-colour photoelectric photometry, and are concentrated in several fields of variable star astronomy. Results are published in the Society's Journal, the Journal of the Royal Astronomical Society of N.Z., the Circulars of the Variable Star Section of that Society, and the Variable Star Bulletin of the International Astronomical Union.

During 1972 we have been preparing for the commemoration of our Jubilee and this will culminate with an open week in November, and the Annual Meeting and Conference of the Royal Astronomical Society of N.Z.

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There has been no change in the officers of the Society since the last Annual Report of the Institute.

W. S. G. WALKER

Conchology Section

Attendances at monthly meetings held in the Malacological Department of the Museum have been very good, and a wide variety of subjects covered. Several speakers have given us an insight into topics of current research and discussions have proved most stimulating. The Section values very much the time given by speakers. Dr A. W. B. Powell and Mr W. O. Cernohorsky have continued to support the Section both with advice and displays from the Museum collections.

Species of particular interest collected during each month have been on display and the short talks or reports by members have been very popular. As a result of several severe storms a number of unusual finds were made during the year.

Quite a number of our 210 members are young folk and it is very heartening to note that as a result of interest generated and encouraged within the Section, most, after leaving school, continue to pursue the subject further and do well in their studies at University and later overseas.

A number of fine books on many aspects of Malacology have been added to the library. Both local and country members have made good use of the facilities available. The microscope has been a great asset to those members who are keen on small shells.

The monthly newsletter keeps country members in touch with the Section's activities and gives notification of meetings along with current notes of interest. *Poirieria* continues to be well received by an expanding circulation.

Country members continue to send in specimens, particularly minute shells, for identification. Several hundred have been dealt with in the past twelve months.

In March a weekend "Safari" by 30 members, to Pukenui in the Far North, was a great success. Trips were made to Ninety Mile Beach and Great Exhibition Bay, where some most unusual finds were recorded. Dredging both within and outside Houhora Harbour resulted in samples of sand being available for all interested in small shells. Over 60 species were found and useful information concerning the bottom sediments obtained.

Every endeavour has been made to keep before our members the necessity for preservation of the habitat and species of marine fauna and to realise that, though a reference collection is a valuable asset, over-collecting and the destruction of an area by the leaving of rocks upturned are practices which need to be guarded against.

JOAN COLES

Maritime Section
(Auckland Maritime Society)

Under the patronage of Captain James Forbes, and guided by Mr W. A. Laxon as Chairman, the Society can look back upon a successful year. Well-attended meetings have been held and an effort has been made this year to encourage more active participation in the programmes by the Society's members. In June, a panel of member speakers covered the history of the Shaw Savill & Albion Company, with descriptions of ships typical of each stage of development, from the sailing ship *Crusader* to the motor ships *Coptic* and *Taranaki*. At the February meeting Mr J. Crawford-Smith gave a talk ranging over his long career with the Union Steam Ship Company, and was followed by Mr A. P. Thompson, who gave a short talk about a protracted passage made by the s.s. *Wingatui*.

The Annual Quiz Evening was held in August as usual, and the Members' Slide Evening in January drew a wide selection of good material. A guest speaker has been invited to address the Society in March; he is Canon J. Lawley-Brown, who retires from his post as Port Chaplain later this year.

During the year the Society has benefited by some very generous donations of books, photographs and other material, both from members and from interested persons outside the Society. Notable examples included some large collections of maritime photographs from Mr W. W. Stewart and Mr F. Kemsley, shipping records from Mr A. Wharton, plated ware from the s.s. *Gothic*, showing fire damage, from Mr D. Bevan, and house flags presented by the New Zealand Shipping Co. and Federal Line.

The Society, for its part, made available donations to the Auckland Institute and Museum totalling \$175 towards the cost of renovating some of the ship models held by the Museum. Also, on Saturday, 17th July, Mr Laxon and a party of committee members visited the Dargaville Museum and made copy-negatives of some 55 shipping photographs on display there. The copying work was most ably carried out by Mr R. M. Watt, and one set of negatives has been presented by the Society to the Auckland Institute and Museum, while a further set has been given to the Dargaville Museum for their records. Work is also proceeding with the composition of a descriptive tape-and-slide commentary on the ports of Auckland and Onehunga.

Launch excursions arranged during the year included a trip up Lucas Creek to Albany, with 81 people taking part, another Tamaki River excursion, and a weekend trip up the Waihou River to Paeroa. Thirty-nine people made the journey, to be warmly welcomed and entertained by members of the Paeroa Historical Society.

During the year the Society, led by Mr N. A. Maffey, has canvassed various organisations to have the spelling of the name of Iliomana Rock, near Rangitoto, corrected to the original spelling

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"Iliomama". An approach made to the National Geographic Board in the matter has resulted in agreement with the Society's view, and corrections will be made to future maps and charts.

The Society lost a foundation member who had played a prominent part in its affairs with the death of Mr R. A. Carpenter on 23rd December last. Mr Carpenter had served two terms as Chairman of the Society, as well as having a long record of work on the committee. Two other long-term members who passed away during the year were the sisters, Misses A. and D. Newton.

In addition to the aforementioned office of Patron held by Captain J. Forbes, and of Chairman, filled by Mr W. A. Laxon, the officers are: Secretary-Treasurer, Mr C. A. Furniss; Committee, Messrs D. N. Brigham, N. A. Maffey, F. K. Slattery, A. P. Thompson and R. M. Watt.

W. A. LAXON

Assistant Director and Curator of Applied Arts

This year the collections have had some very important gaps filled and some welcome additions to already established sections. First and foremost is the collection of Korean ceramics, bronzes and furniture which has been deposited here for at least five years by Squadron-Leader Peter Rule, who collected them in Korea. The ceramics cover the Silla, Koryo and Yi dynasties and are of a quality only excelled in comparatively few museums in the world. It is to be hoped that some day we may have the opportunity of acquiring at least a part of this collection.

We also have a deposit of English silver and Chinese ceramics made by the late Mr Wallace Gunson just before his much regretted death. Wallace Gunson always maintained a great interest in the decorative arts and in the Museum.

Miss M. Lohore has deposited with us her collection of Thai pottery of the 14th and 15th centuries. These are of fine quality and include a large number of small animal figures.

Finally, the Victoria and Albert Museum has diverted to us a quite comprehensive collection of lace; this, together with our other material, has been catalogued by Mrs Judy Smith, who has taken over this part of the collections and becomes Hon. Curator of Textiles. Mrs Smith exhibited our lace collection this year and had the assistance of the Western District Lace Makers Guild, who put on demonstrations during the day.

The Disney Art Trust has enabled us to purchase more ceramics. The most notable were three Pre-Columbian pots, a Hochst porcelain figure of the early 18th century, and a Sung bowl.

An interesting visitor was Mr Rewi Alley, who spent two afternoons in our Asian Hall; we are grateful for the following further

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gifts from him — a Sung Tessha bowl, a collection of Sung sherds collected from kiln sites, an extremely fine five-colour enamel porcelain bowl of the fifteenth century, and a humorous scroll of the Sung Dynasty showing the "continuing story" of a Chinese drinking party.

The department is also indebted to those Studio potters who have given us, at my asking, examples of their work.

Three main exhibitions have been held — "Auckland 1871", for which Mrs Betty Brookes, Mr John Wadham, Mrs Audrey McBurney and Mr Harry Rowe worked to within minutes of the Official Opening; the Auckland Potters had their annual exhibition, and the Hand-weavers Guild put on a general show of work.

During the year I gave 14 lectures and paid a visit to Whakatane to assist in the planning of their Museum.

The refurbishing, and in some cases the redesigning of cases in the Maori Court has been progressively carried out, Mrs Brookes carrying out the work with the co-operation of the Ethnologist, Mr Simmons.

The Polynesian Hall has also been redesigned, using the Nukuoro goddess as the focal point, and massive sculptures displayed in the open; nearly all the cases were redone. This again was a co-operative effort of Mr Simmons, Mrs Brookes and myself.

A new case opposite the Coffee Lounge was built round the existing window, and this is to be used to display our collection of Pre-Columbian pottery. At the same time, construction on the Disney Hall of Furniture has begun and should be completed late this year.

I would like to thank Mrs Judy Smith for her voluntary work on textiles, and Mr Max Golder for his work in the care of the Arms Collection. Our thanks are also due to Mr Ralph Court for the donation by George Court Ltd of three handsome seats for the Asian Hall.

T. J. BAYLISS

Ethnologist

A marked feature of the year has been the increasing identification with and use of the Museum by Maori groups. This was highlighted during the visit of the Canadian Minister of Indian Affairs when, during the reception by the Auckland District Maori Council in the Museum, speakers referred to the Museum as a living part of their culture. More informal use of the Museum and of the advice of the Ethnologist has continued during the year. The Ethnologist was appointed as adviser to the Orakei Marae Trust Board and has been invited to attend various meetings of other boards, councils, committees and informal meetings. A report was prepared for the New Zealand Maori Council on a particular sale of artifacts.

As a member of the New Zealand Archaeological Association

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Mr Simmons with the Ngati Whatua lintel, a notable addition to the Maori collections. The lintel was found at South Kaipara Head by Daniel Quigley, who presented it to the Museum

New Zealand Herald photo

Council the Ethnologist attended a conference on the Historic Articles Act held in Wellington; the benefits from this and future conferences on this topic should result in improved legislation and a greater confidence among Maori groups that their heritage is not being sold to the highest bidder.

As part of the project to determine the distribution of items of material culture, short periods of field work were spent in the Bay of Plenty, Coromandel and North Hokianga, mapping pa sites and recording local collections. Part of the results of this research were presented in a paper at the New Zealand Archaeological Association Conference held in Auckland. Information from research was included in lectures given to many different groups — a total of 50 lectures and tours were given, and two television programmes made.

In co-operation with Mr Bayliss and Mrs Brookes, some of the Maori Court displays have been modernised, notably the cloak and carving cases in the east wing. Further renovations will continue as time permits.

In accordance with the policy of collecting dated specimens the Museum was very pleased to receive a fine collection of Solomon Islands material from Drs R. C. Green and S. M. Mead, and an

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excellent collection from Miss Lynne Owen from the West Highlands and the Sepik River of New Guinea.

A very notable gift has been the presentation of a lintel found on the South Kaipara Head by Master D. J. Quigley. This small lintel is unique — it is carved in the Ngati Whatua style, which appears to have gone out of existence in the early years of the 19th century. Other pieces in this style are nearly all door jambs for storehouses. The presentation of this lintel by Daniel Quigley and his family is indeed a great gift. Conservation has now been completed by Mr Karl Peters, of the Anthropology Department, Auckland University.

Other important accessions are a bird-shaped bowl from Motiti Island, presented by the late Mr H. G. Allen; a large grindstone from Spirits Bay, presented by Dr N. C. Baskett; and two kauri gum heads of Tawhiao and his wife, purchased in England and presented by R. Lapwood.

Visits were paid to Opotiki and Gisborne to advise on the preservation of meeting houses. Tane-whirinaki, at Opotiki, involved treatment of three hundred carvings from a dismantled house. Rongopai painted house at Gisborne was visited to make a report on conservation of the structure, tukutuku panels and painted wall slabs. Advice on conservation has also been given to a number of other groups, including the Minister of Maori and Island Affairs.

It is never possible to undertake as much conservation as is desirable within the Museum, and particularly of the storage collections. Mrs Paterson has been able to treat a number of objects but time has not permitted any sustained programme of conservation. General checks on the display collection have proved the effectiveness of previous treatment. The methods used were discussed with Dr H. J. Plenderleith, of the International Centre for the Study of the Preservation and Restoration of Cultural Property, Rome, and received his approval.

Further assistance was given to Tauranga Museum. The Whakatane District Museum material was sorted and arranged for display, and advice given to other local museums. Informal discussions on the preservation of local sites at Whitianga, Tauranga and Coromandel were held with the Lands and Survey Department, local Councils and landowners.

An important collection, the W. M. Fraser Collection, held in trust for Whangarei City Council, was greatly added to during the year by gifts from Mr Fraser's daughter. The whole collection is now held in the Museum until a fireproof building can be erected in Whangarei. Similarly, the Tauranga Museum has placed two important collections of tukutuku panels from the Matapihe Church and Bethlehem marae, in the Museum.

Cataloguing has been in the capable hands of Mrs P. Paterson, with the voluntary help of Miss Joan Caughey and Mrs Field.

D. R. SIMMONS

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E. Earle Vaile Archaeologist

Excavations at Mt Wellington constituted the principal fieldwork activity this year. Roading proposals in one area of the Domain affected Maori earthworks. With the full co-operation of the Mt Wellington Borough Council, adequate investigations of threatened areas were carried out before roading proceeded.

A preliminary excavation at Mt Wellington took place in August, and a major two-month excavation between mid-November and mid-January. In August a small group of pits on the crater rim was investigated to see whether it would be possible to restore features to their original shape and depth as part of the long-term development of the Domain as a historic area. An agricultural flat on the western side, in the path of the proposed road, was also investigated. The summer excavations were jointly directed by Mr J. R. McKinlay, New Zealand Historic Places Trust, and myself. Two large terraces which would be cut by the proposed road were thoroughly investigated. During both excavations, members of the University of Auckland Archaeological Society and New Zealand Archaeological Association assisted. I subsequently spent two days observing the construction of the road down the western slopes of the mountain; again full co-operation was experienced from the Council and the contractors.

Short field trips were made to sites near Auckland, and several recording trips were also made further afield to various parts of Northland and to Port Jackson, on the Coromandel Peninsula. Inspecting sites on Crown land and making recommendations to the Lands and Survey Department about their preservation is becoming an important aspect of fieldwork; this year such field trips were made to Waihi Beach, Kakepuku, Kaukapakapa, Flagstaff Hill (Russell), Ruapekapeka, and Kawau Island. I have also made recommendations about management of sites on Domains in and near Auckland.

The report to the Lands and Survey Department on archaeological sites at Te Paki was completed during the year. The finished mimeographed report totalled 44 pages.

Another important aspect of conservation of archaeological sites is their recognition by local authorities. Detailed information on archaeological sites in Whangarei County was prepared, and discussions were also held with Town Planning Consultants who were preparing District Schemes or revised District Schemes for several other local bodies under the Town and Country Planning Act.

Research other than fieldwork concerned analysis of material previously excavated on Motutapu Island, and preparation of reports for the second volume of "Archaeology in Western Samoa". Analysis of Motutapu material is still proceeding, and a short field trip to carry out mapping of two sites was undertaken. A paper has been

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prepared for the next issue of the *Records*. The report on archaeology of Nukuoro was published as *Bulletin 9*.

Talks to various groups during the year included the Ornithological Society, Anthropology and Maori Studies Section, Warkworth Junior Naturalists, and study groups from Pakuranga High School, Federation of University Women, and the Plant Diseases Division, DSIR. A tour of archaeological sites on Motutapu Island for members of the Auckland Historical Society attracted a particularly large party.

I have continued to be Secretary of the New Zealand Archaeological Association, a member of the New Zealand Historic Places Trust, and Council member of the Polynesian Society, and to represent the Museum on the Ewelme Cottage Management Committee.

JANET M. DAVIDSON

Colonial Section

The routine care of the displays and collections has been carried out with some slight alterations and additions. A number of donors have been visited and we have been able to lend material for display or lecture purposes on several occasions.

Visitors to the Department have included Mr Fitzgerald, of the Dominion Museum, Wellington, who discussed conservation of costume, and Mr T. Hosking, of the Tongariro Power Development and representative of the Taupo District Historic Places Trust. Overseas visitors have been particularly generous with their praise for "The Street".

Photographs and information have been provided for newspaper articles and television programmes. General inquiries and requests for information or help have been met as far as possible.

Among important accessions are two spirit levels, donated by Mr A. W. Hepburn, which were brought to New Zealand by Mr Hepburn's great-grandfather in 1837. His grandfather, Mr James Hepburn, claimed the honour of being the first white boy born in Auckland and, according to Mr Hepburn's father, argued with Mr Charles Stone, of Onehunga, for many years about their rival claims to this distinction.

AUDREY McBIRNEY

Botanist

The position of Botanist remained vacant from the resignation of Dr Cooper in April, 1971, until I took up the post on 24th March this year. In the interim the herbarium has been in the able hands of Miss J. Goulding, who as Acting Botanist has continued with the labelling, determination and incorporation of the backlog of collections, as well as conducting further research into the identification of plant fibres used by the Maoris, Fijians and other Pacific Islanders.

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Miss Goulding also has written a paper, now in press, on "The Privets in Auckland". My own research on the taxonomy and anatomy of Haloragaceae, interrupted by my move to Auckland, has been resumed, and an investigation of the New Zealand varieties of *Acaena ovina* has been initiated.

The task of labelling and naming the backlog of collections has now been completed, largely through the efforts of Mrs Hynes, but a considerable number of Dr Cooper's North Auckland collections still await mounting and incorporation. Rearrangement of the collections has been started in an effort to relieve the shortage of storage space, and to facilitate quick access.

The total of numbered specimens in the herbarium on 1st April, 1972, was 129,521, an increase of 1,125 for the year. This increase was in large part the result of a donation of 700 New Zealand plants by Miss B. Parris, and 131 duplicates of *Epilobium* from Botany Division. Other accessions included a book of pressed ferns, mosses and algae from Mrs R. Coyle, 80 dried ferns from Miss C. Scott, plants collected on Red Mercury Island by Mrs Hynes, and plants from Grafton Gully and Manukau Harbour collected by Miss Goulding.

A total of 339 sheets were distributed as exchange to the Arnold Arboretum, Bailey Hortorium, Botany Division, Christchurch (two consignments), Carnegie Museum, the University of South Florida and to Kew. A loan of 169 sheets of *Ourisia* were sent to Dr D. Lloyd at the University of Canterbury, and 52 sheets of Kermadec plants, 3 of *Digitaria* and 3 of *Baumea*, were sent to botanists at Botany Division, Christchurch.

Overseas visitors to the herbarium were Dr P. S. Green, Deputy Director, Kew, and Prof. C. McMillan, of the University of Texas. Four botanists from Botany Division, and various staff members of Victoria, Auckland and Canterbury Universities also came to work on our collections during the year.

As usual, plants from all parts of New Zealand have been sent in for identification, and this year we also received for determination 12 specimens of *Pittosporum* from the University of California, and a *Rhagodia* from Barcelona, Spain.

The assistance of Miss B. Parris and Mr J. Croxall, who sorted and redetermined our foreign fern collections, is gratefully acknowledged.

A. E. ORCHARD

Entomologist

A grant-in-aid of \$1000 was received from the Nuffield Foundation New Zealand Advisory Committee for technical assistance with invertebrate material collected in North Auckland under previous Nuffield grants and in following years. Work this year has concentrated on the material from the Far North (Mangonui county), and

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Entomological field work in Northland under the Nuffield Grant has resulted in large accumulated collections: Mrs J. Gurr sorting leaf mould material

Vahry photo

Miss R. Wood was employed full time for over three months. Mrs J. Gurr and Miss V. Wise have also assisted. Over 100 specimen samples have been sorted, many of these containing material of over 20 invertebrate groups and hundreds of specimens. From the sorted material records of groups, species and distributions are being collated.

Mrs J. Gurr and Mrs A. McBirney have assisted part-time throughout the year with entomological work and recording.

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I gave two courses of lectures for the Department of University Extension in 1971, and lectures to the Royal Forest and Bird Protection Society and other groups. Several newspaper articles were written for a Museum series and a further colour pamphlet completed. Monthly insect evenings in the Department have been continued.

The tagging of Monarch butterflies, as part of a Butterfly Dispersal Project, is being continued but on a somewhat restricted basis for the moment. Many reared butterflies have been tagged in the past by various co-operators in different parts of the country, but most of these have been retaken within a few miles of the point of release. Two co-operators in Whangarei, one in Maungaturoto, one in Howick and one near Tauranga are continuing this work, and it is hoped to extend the project to tracking and tagging actively flying or migrating butterflies.

A great deal of insect and related material has been handled in the Department both in general and in research work. As in past years, two new insect cabinets were bought and transfer of insects into these has been completed.

Further research has been carried out on Neuroptera, Trichoptera and Collembola of subantarctic islands and New Zealand, while a paper on the Neuroptera of the Kermadec Islands has been completed. A new list of the aquatic insects of the New Zealand sub-region has also been prepared.

As I had been invited to prepare a paper on insects for a forthcoming Department of Scientific and Industrial Research Bulletin on Cuvier Island, leaf litter samples were collected at my request in November, 1971, and I spent two weeks on the island in January, 1972. Many specimens have been extracted from the leaf litter samples and a comprehensive collection of insects in various habitats was made. Work on sorting, labelling and identification is in progress.

Editorial work last year was a considerable load. Following editing and publication of the Annual Report (April - June), editing of scientific papers was continued and was completed with the publication of the *Records*, Volume 8, on 17th December, and a *Bulletin*, No. 9, on 22nd December.

K. A. J. WISE

Malacologist

The Department provided services to the public through identifications of molluscs, advice on collecting techniques and other information pertaining to malacology. Molluscan information and assistance with identifications have been extended to collectors in 13 overseas countries, and information on type specimens and taxonomic aspects was supplied to the Macquarie University, Australia, the Australian Museum, Sydney, the University of California, Santa Barbara, and the Zoological Institute of Vienna University. Several

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interloans of specimens have been despatched to the NZ Geological Survey and the Smithsonian Institution, Washington, DC.

Several important collections were forwarded to our Department for classification. These included collections made by the *Galathea* and "Mortensen's Pacific Expedition" from the University Zoological Museum, Copenhagen, collections of molluscs made by His Majesty the Emperor of Japan at Sagami Bay, and material collected by the combined Indonesia-West Australian Museum-Smithsonian Institution Expedition to the Moluccas. Material obtained by the Tel Aviv University in the Red Sea is in the process of being classified at the moment. A small collection from Solomon Island kitchen-middens has been identified for the Anthropology Department of Auckland University.

Molluscan material collected in the Cook Islands and the New Hebrides, has been processed and classified. Valuable molluscan collections have been received from the Marine Department through trawls made by the *Ikatere* in New Zealand waters.

Visitors to our Department were Mrs Warners, from the Drent Natural History Museum, Holland, and Mrs Jay Richardson, an associate of the National Museum of Victoria. Our Department provided research facilities for visiting post-graduate students from Auckland and Victoria Universities for their respective research programmes. The Department provided quarters and facilities for the monthly meetings of the Museum's Conchology Section.

A representative collection of New Zealand molluscs, consisting of 78 lots and 300 specimens, has been assembled and forwarded to the Hamilton Teachers College on an extended loan basis for use in their biology classes.

Research during the year dealt with Indo-Pacific Nassariidae, the taxonomy of Indo-Pacific Mollusca, a taxonomic evaluation of related, non-mitrid molluscs, and Finlay's type-specimens of molluscs in the Auckland Institute and Museum. Papers on these subjects have been completed and await publication in volume 9 of the *Records*. A manuscript of volume II of "Marine shells of the Pacific" has been completed; the book, being published in Australia, is in the galley-proof stage and publication is expected in August, 1972. An extensive monograph of world-wide Mitridae is in progress for publication in "Indo-Pacific Mollusca", a monograph series published by the Delaware Museum of Natural History, USA.

W. O. CERNOHORSKY

Research Associate in Mollusca

The past year has been an exceedingly busy one, working steadily upon several long-term research projects, identifying some large collections of molluscan material, both for local institutions and overseas museums, notably over 500 lots of turrids and limpets from

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Indonesia for the Western Australian Museum, Perth, conducting several field trips, one involving both Northland and South Island areas, delivering several outside lectures, arranging exhibits of Mollusca for the monthly meetings of the Auckland Museum Conchology Section, keeping up to date with the increasing volume of local and overseas published molluscan researches, and entertaining and assisting visiting molluscan specialists.

In October, 1971, I participated in a New Zealand Oceanographic Institute trip to dredge bottom samples from the area covered by my 1937 report on "The Animal Communities of the Sea Bottom in Auckland Harbour". The object of the present investigation is to determine if significant changes have taken place since the original survey was done.

Research on land snail populations in Northland forests continues with the aid of a Nuffield Research Grant. Many weekend trips were made, as well as three more extensive ones, in one of which Dr Frank Climo and Mr Bruce Marshall, of the Dominion Museum, were invited participants, the former having already published some of his anatomical results on the smaller snails collected under this investigation.

During February and March of this year a more comprehensive field trip to both Northland and West Nelson was made for the purpose of ascertaining the present state of *Paryphanta* snail colonies, known to have become depleted within recent years, and also to enable a visiting scientist, Mrs J. Richardson, of CSIRO, Melbourne, to collect representative molluscan material for the National Museum, Melbourne.

Only one paper was actually published during the year, "New Zealand Molluscan Systematics, Part 8", in the Museum *Records*, but a large monograph on the Patellid limpets of the world, of over 400 typed pages, is now in the editor's hands, for publication in "Indo-Pacific Mollusca", Delaware Museum of Natural History. In addition, over 600 pages of manuscript on the subfamily Clavinae, family Turridae, awaits publication in the same series.

Apart from the above, a great deal of work has gone into the new manual of the New Zealand Mollusca, which now covers 1,867 species, with less than 500 species yet to do.

A short paper entitled "A Kermadec Islands *Conus* (Mollusca: Gastropoda) found living in Northern New Zealand waters", was handed in for publication in the next issue of the *Records*.

A. W. B. POWELL

Marine Biologist

Considerable additions, largely fishes, have been made to the collections from material caught during a series of prawn fishing trawls in north-eastern coastal waters. The use of fine-meshed nets in

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deeper offshore waters (300-400m) throughout trawling was most helpful. Among the collections were several rare fish and new records to this department; in many instances they supplemented infrequently collected species which had been found in previous prawn fishing trials. I gratefully acknowledge the assistance of Marine Department research scientist, Dr P. M. Hine, who authorised collecting on our behalf.

In addition to normal curatorial duties associated with wet collections, two tanks containing our larger-sized fishes were cleared to allow identification, cataloguing and re-sorting of their contents. This material, which includes specimens from the L. T. Griffin collections, has been re-sited close to the existing bottle storage area.

A noteworthy accession received in May, 1971, was a large leatherback turtle, and with the assistance of Mr H. Rowe the skull and carapace were dissected, and are now being preserved. This species, a rare visitor to our waters, was accidentally caught in a flounder net in the Firth of Thames by Mr K. Tombleson, who presented it to the Museum.

The main research project has been the consideration of speciation amongst Australasian trevallies of the genus *Usacaranx*. The work is being carried out in collaboration with Mr G. James, Marine Department scientist, and was initially confined to New Zealand material. However, our analysis extended into commercial catches and results suggested that Australian material should be included.

A four panel display showing arts and crafts of the mariner was completed in co-operation with Mrs Brookes, in the Maritime Hall. The display, showing handicrafts employed by seamen as a means of occupying time, includes bone and wood carving, intricate rope work, and scrimshaw etchings.

Some examples of whaling gear were installed in the hall of Fishes and Whales. Included in this is a bricked up tryptot of the type used at coastal stations and on whaling ships of the period, together with harpoons and other implements.

We have been fortunate, this year, in gaining the skilled services of Mr E. T. Fairburn in restoration work on two large ship models, the s.s. *Kaikoura* and the t.s.s. *Niagara*. The project was subsidised by the Auckland Maritime Society and we are most grateful for their support. It is hoped that Mr Fairburn will be able to continue this work in the near future.

A. B. STEPHENSON

Librarian

This year there was again a steady increase in the use made of the New Zealand collection and the number of people using the New Zealand Room totalled 4,205, an increase of 361 over last year. Mrs Arthur reports a significant rise in the use of newspapers and

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other items which cannot be borrowed. 771 volumes of newspapers were requested, an increase of 320 over the previous year, and 1,270 books, manuscripts and pictures from the Reserve Rooms were used. The restriction to reference only of University textbooks has helped to satisfy the demand for these titles, particularly from Anthropology and New Zealand History students.

Among the many important items received by donation was an outstanding collection of over 800 ornithological books, periodicals and reference files presented by a life member, Mr R. V. Roberts; the journal of James Shepherd, 1820-1826, formerly on deposit, was presented by Mrs H. Hendriksen and Mrs B. Pope; papers relating to George Graham, including the Minute Books of the Akarana Maori Association, were presented by Mrs F. C. Scale. Among material purchased perhaps the most interesting was a rare first edition of "Gerard's Herbal", published in 1597. Some of the many items which have been kindly loaned for copying were an album of Maori portraits loaned by Mrs M. M. Cohen and photographs by Louis Daroux, which were lent by Mr L. J. Daroux.

Work with the Photograph Collection was much reduced through the resignation in September of Mrs Janice Mogford, who had given valued service, particularly in the field of reference work. Nevertheless over 900 negatives were added and 1,570 photographs from the collection were ordered for copying. New accessions included shipping and aviation negatives presented by Group Captain A. A. N. Breckon and an album of photographs by D. L. Mundy, presented by Mr C. A. Rowe. A viewer was installed to ease the identification of negatives, and work was begun on the rebinding of old photograph albums.

There was a noticeable increase in the enquiries received for copies of items in the Picture Collection and several were selected by Paul Hamlyn Limited for publication in their weekly historical periodical "New Zealand's Heritage". Copy negatives are now available for many major items in the collection.

A total of 6,452 books were borrowed by members and 2,850 of these were issued from the New Zealand Room. A considerable amount of staff time was spent in fulfilling library interloan requests, and these loans to other libraries totalled 535, while inward requests numbered 92. 960 books were fully catalogued and several hundred titles from the storage rooms were listed in the catalogue.

Use of the Xerox photocopying machine has increased greatly and has proved particularly valuable for manuscript material which has been lent to the Library to copy. Catalogue cards are now also duplicated on this machine.

Library exchange continues to be a valuable source of material, although the multi-disciplinary nature of the *Records* and *Bulletin* has sometimes made it difficult to obtain comparable exchanges from other institutions.

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Important new periodical titles which are now received include *Archiv für Molleskenkunde*, *Proceedings of the Prehistoric Society*, and *Journal of the Society for the Bibliography of Natural History*.

Staff changes involved the resignations of Mrs Janice Mogford and of Mrs Audrey Spear, Orders Assistant for over four years. I would like to record my sincere thanks for their valuable work. These changes have occurred in a year which has seen greater use made of the Library and I am grateful to Mrs Arthur and Miss Tucker, who have helped to maintain essential services. With the appointment of Mrs S. Chapman in June, the Library now has, for the first time, a full-time clerical assistant. Mrs D. Mummery was employed as Orders Assistant from January - March.

Once again I am indebted to several people who have assisted in a voluntary capacity: Rev. Dr A. B. Catley, Miss Joyce Key-Jones, and Miss Enid Evans, who very kindly acted as Photographs Librarian for three months. I am also grateful to those who have helped us acquire material during the year, in particular Mr J. Stacpoole, Miss H. Kennedy, Mr R. J. George and Mr D. R. Simmons.

In addition to the donors mentioned above, we acknowledge with thanks donations from the following: Sir Gilbert Archey, Auckland Hospital Auxiliary, Auckland Maritime Society, Dr C. A. Fleming, Lt.-Colonel A. R. Hughes, Most Rev. R. J. Delargey, Professor R. F. Keam, Dr Mary S. Palmer, Dr R. C. J. Stone, Dr R. M. S. Taylor, Messrs H. W. Annison, T. V. Bovaird, S. G. Brooker, W. J. Brown, P. Coates, E. Craig, G. W. Crocombe, V. F. Fisher, G. M. Fowlds, C. E. Galbraith, D. Grist, C. W. Hawkins, A. W. Hepburn, A. Hicks, S. Kronfeld, W. A. Laxon, E. L. Lee, T. S. Lipscombe, R. G. Long, A. Lush, D. B. Macaulay, F. E. McCallum, I. S. Macdougall, N. A. Maffey, W. D. Mansfield, L. J. Maule, R. E. Messenger, I. A. Murray, W. R. S. Owen, J. H. Rose, M. Ross, R. Ross, J. McK. Sandman, R. A. Scobie, J. Seabrook, R. B. Sibson, D. R. Simmons, R. A. Simpson, D. W. Sinclair, F. Sephton, L. Smith, W. Smith, J. Thuell, V. Titchener, A. E. Tonson, E. G. Turbott, W. H. Williams, G. B. Wilson, W. Wood. Mesdames D. Beavis, J. S. Coster, A. Drummond, J. Ireland, E. M. McKellow, R. W. McNabb, V. A. Morgan Page, N. M. Morris, R. M. Peek, R. M. Ross, C. E. Walsh, B. Yates. Misses M. Broadhead, T. B. Clerk, I. M. Cronholm, I. F. Smytheman, M. McFarland. Estate of the late Miss K. I. Gemmell, Estate of the late Mr T. Walsh.

I. G. THWAITES

Extension Service

For the Extension Service, the highlight of this year has been the acquisition of a new vehicle for circulating displays around the provincial area. By means of two sets of carrying racks, and with two loading doors, the new van provides twice the carrying capacity

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Miss J. Bertrand, Art Assistant, working on an Extension Service travelling display

Vahry photo

of the old one, and this enables us to give better service to our country display centres. No more do I arrive knowing that the centre has already had all the displays in the van. In addition, I can now carry a "spare" display which can be used in the event of damage to one of the circulating displays. The larger capacity also means that displays get back to the Museum at more frequent intervals, allowing repairs and maintenance to be carried out. As many of the displays have been on the road for more than ten years, this work has occupied much of Mrs Brookes' available time, to the extent that only one new

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panel has been made this year ("Food Plants of the Maori"). The extra space has also enabled me to start circulating displays of photographs to interested groups. To date, the full set of "Early Auckland Illustrated", and smaller sets on "Early Settlers' Dwellings" and "19th Century Costume", are being circulated, and there is every indication that these will be popular. The "Early Auckland" set proved to be particularly welcome at Kaitaia and Hamilton Teachers' College.

The Auditorium and Exhibition Hall were used quite extensively. The first Archey Lecture was held, shortly followed by the New Zealand Institute of Engineers' Annual Dobson Lecture, the latter together with an engineering display. The opening ceremony for Conservation Week was followed later in the week by a panel discussion on urban foreshore conservation. The Post-Primary Science Teachers' Association held their school Science Exhibition, which was visited by some 24,000 people. The Auckland Photographic Society held an exhibition of international colour slides and later in the year held their own annual salon and exhibition of prints. The Civic Trust staged a small exhibition on rubbish disposal in association with the anti-litter week, and this was followed by the Auckland Studio Potters' Annual Exhibition, which drew its usual crowd. Later, a City Centennial Floral Exhibition was staged by the Auckland Horticultural Council.

A collection of artifacts and Extension Service displays were taken to Pukekohe for a Polynesian Festival held there by the Chamber of Commerce. Photographs relating to kauri milling and displays on gum digging were assembled and sent to Coroglen on the occasion of the 75th anniversary. The Ngatea A & P Show had for a theme "The Uses of Wood", and a display on "The Decorative Uses of New Zealand Woods" was set up as our contribution. At the Annual Game Fair held at Clevedon, a number of mounted birds and two display panels were shown.

Films obtained from the National Film Library enabled showings to be arranged during January in the newly renovated School Room; attendances were very good, numbering between 50 and 80 per session. The "Extended Studies Classes" continued, responsibility being taken by both Mr Cadman and myself; these classes provide the opportunity to see the Museum from behind the scenes, and to handle a wide range of Museum materials.

J. H. WADHAM

Planetarium Lecturer

Flights to the Moon and exploration of the inner part of the solar system have aroused great public interest in recent years, and among Secondary School pupils in particular.

Naturally, with such a wide field of interest, the planetarium is able to deal with groups of all ages; almost every day a School

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party visits the Museum to listen to lectures on stars and space. Sometimes as many as five or six groups tax the seating in the planetarium. A number of groups of adults have attended night lectures.

Totals for the past year have risen considerably, 26,064 persons having attended lectures and demonstrations.

R. A. McINTOSH

School Service

Summary of attendances for one-hour lessons: Primary, 48,770; Intermediate, 6,383; Secondary, 4,231; Total, 59,384.

Student teachers on section: Primary, 46; total, 46.

Numbers in visiting student-teacher classes: 1,371.

Schools regularly receiving loan material: City, 75; Provincial, 400; total, 475.

A year which terminates 34 years of stewardship may well be the appropriate time to review something of the character of this department. Typically it has been a period of growth and development. Born in the depression, the early years of this Section were spent first in a war-time atmosphere and later in a post-war climate of social adjustment. Its field of influence was the original region of the Auckland Education Board, which proved to house not only the largest but also the fastest growing population in New Zealand. The outcome of these youthful experiences has been an adaptable constitution.

Attendances

Initially the response was slow — the transport system, basically trains, trams and ferries, was not flexible, and the times were hard. But it started firmly. By 1941, when I went overseas for nearly eight years, initially with Army and subsequently with post-graduate study commitments, attendances were running at 15,000 a year, around which figure they oscillated until the end of the War, after which they jumped towards the 30,000 mark. From 1950, the attendances exploded. Transport facilities improved out of all recognition and the school population increased vastly. During the "fifties", the attendances averaged 33,000 (despite four very difficult years during the Museum building extensions), and in the next decade, 45,000. Typically, towards the end of the "sixties", attendances have tended to peak at 64,000.

From the beginning, these attendances have included children from the city and the province, and have incorporated primary and secondary pupils. The range of classes reflects the scope of the lessons, and the scale of the attendances may well be regarded as a criterion of their adequacy. To date, considerably more than one million attendances have been recorded.

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Loan Service

Essentially the aim of this service has been to help the schools outside the metropolitan area. In those early days, insufficient funds were available to distribute loan material. Somehow the interest of the schools had to be stimulated, and this was accomplished largely through the enthusiasm of the Agricultural Instructors of the Auckland Education Board, who took sample cases to the schools and persuaded teachers that it would be well worthwhile to pay the freight. Slowly, groups of schools were formed in North Auckland and the Bay of Plenty to circulate the displays. The Waikato was opened up through the kindness of the Prison Service; in return for making displays available to an institution in that region, its service lorries delivered cases to schools along the route. So the demand was tested, and being found effective, it engaged the interest of the Auckland Education Board, who overcame the problem of freights.

By 1940, 33 provincial schools were being served on a regular repetitive basis. In 1950 it had jumped to 220, and by 1970 it reached 397, incorporating schools from Te Kao in the north, to Kinohaku in the west (Kawhia Harbour), National Park in the south and Whangaparaoa in the east. If it is not the biggest provincial scheme in the world, it is certainly one of the largest.

Earlier, a loan service to the city schools had been established which tried to keep pace with the metropolitan growth, until the huge explosion in schools in 1955, when it was serving 75 schools. Since then it has not been possible to increase the range, the demands of the provincial schools being all that can be managed.

The work of the Art Technician, Mr J. McCaw, in expanding and maintaining the pool of loan material since 1953, deserves full recognition.

Students and Aides

The posting of students to the Museum for teaching practice had been established in 1936. The appointment of a teacher as an education officer associated with the Teachers' College gave professional direction to this form of training. Thereafter it expanded until the supply of students was continuous, producing virtually a junior staff. The introduction of the three-year training course in 1968 resulted in an intermittent and lessened flow of students. Consequently teaching methods have been modified to meet the changed conditions. One form was the incorporation of parents as teachers in suitable topics, to create small groups of pupils to keep the teaching as individualistic as possible, and this has proved most successful.

The training of student-teachers has resulted in a cadre of teachers capable not only of looking after their own classes but also of helping other teachers. They constitute the hard core in the practice of Museum education. Altogether some 2,500 students have been trained.

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In 1938 there was only one Teachers' College to use the resources of the Museum for study purposes: today there are five.

Establishment

Initially a single Education Officer, an assistant was added in 1944 and another in 1957, while an Art Technician was appointed in 1950.

While there have been a number of changes of assistants, there has been only one break with the senior post, and that occurred between 1941 and 1949, when the late Miss Zoe Lloyd acted as senior officer. Taking over after three critical years of experimental work, it fell to her to bring much of it to fruition. Her own special contribution was the advancement of the teaching of natural history. It says much for the ability of this fine woman that she kept the whole service running, and succeeded in developing it, during the War and post-War eras.

Full credit must be given to the Assistant Education Officers, past and present, whose willingness to serve has enabled so much to be undertaken so successfully.

The performances of this organisation have drawn attention from museums throughout the world, resulting in considerable correspondence, much of it in the form of requests from institutions about to set up their own teaching services.

Amenities

Makeshift facilities for classes, students, Education Officers, the Art Technician and the collection of loan material (latterly three tons of it) existed until the development of the space made available by the extension of the Museum in 1960. Excellent conditions on a generous scale now exist for holding classes, housing the students and containing the loan service department. The Education Officers are also placed strategically in relation to the scenes of their activities. The outfitting of the small auditorium this year has completed a complex capable of meeting the needs of a tremendous development.

Administration

The creation of the Auckland and South Auckland Education Boards in 1952 was more an administrative adjustment of the old region than an extension, with the work continuing without a break and most harmoniously.

Acknowledgments

So many people have shown an active interest in this form of education by helping the work of this department that it is not practicable to name them separately. I can only acknowledge my debt generally to numerous institutions, organisations, local bodies, firms and individuals who made it possible to achieve so much. Love of children and goodwill have been their essential quality.

R. A. SCOBIE

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Staff Publications

April, 1971, to March, 1972

Scientific

CERNOHORSKY, W. O.

- 1971 A comment on the validation of *Murex lotorium* Linnaeus, 1758 (Mollusca: Gastropoda) with an alternative proposal. Z.N. (S.) 1886. *Bull. zool. Nomencl.* 27: 133-134.
- 1971 Comments on the proposed designation of a type-species for *Littorina* Féussac, 1822. Z.N. (S.) 1901. *Bull. zool. Nomencl.* 27: 210.
- 1971 Comments on the requested suppression of *Ametistina* Schinz, 1825. Z.N. (S.) 1894. *Bull. zool. Nomencl.* 27: 212.
- 1971 Contribution to the taxonomy of the Muricidae (Gastropoda: Prosobranchia). *The Veliger* 14: 187-191.
- 1971 Fossil and Recent Cypraeacea (Mollusca: Gastropoda) of New Zealand with descriptions of new species. *Rec. Auckland Inst. Mus.* 8: 103-129.
- 1971 New molluscan species of *Strombus* (Strombidae) and *Cancilla* (Mitrididae) from New Britain and Taiwan. *Rec. Auckland Inst. Mus.* 8: 131-135.
- 1971 Indo-Pacific Pisaniniae (Mollusca: Gastropoda) and related buccinid genera. *Rec. Auckland Inst. Mus.* 8: 137-167.
- 1971 The family Naticidae (Mollusca: Gastropoda) in the Fiji Islands. *Rec. Auckland Inst. Mus.* 8: 169-208.

CERNOHORSKY, W. O. and A. G. BEU

- 1971 Cymatiidae Iredale, 1913 (Gastropoda): proposed conservation under the plenary powers. Z.N. (S.) 1939. *Bull. zool. Nomencl.* 28: 59-61.

DAVIDSON, JANET M.

- 1971 Preliminary Report on an Archaeological Survey of the Vava'u Group, Tonga. *R. Soc. N.Z. Bull.* 8: 29-40.
- 1971 Archaeology on Nukuoro Atoll, a Polynesian outlier in the Eastern Caroline Islands. *Bull. Auckland Inst. Mus.* 9: 1-108.
- 1971 Fieldwork on Motutapu. *New Zealand Archaeological Association Newsletter* 14 (3): 80-81.

DAVIDSON, JANET M. (editor)

- 1971 *New Zealand Archaeological Association Newsletter* 15 (1).

GOULDING, JEANNE H.

- 1971 Identification of archaeological and ethnological specimens used by the Maori. *Rec. Auckland Inst. Mus.* 8: 57-102.

POWELL, A. W. B.

- 1971 New Zealand molluscan systematics with descriptions of new species: Part 7. *Rec. Auckland Inst. Mus.* 8: 209-228.

SIMMONS, D. R.

- 1970 *Regional Traditions and Material Culture in New Zealand*. Mimeographed, 31 pages.
- 1971 Anthropomorphic Stone Pounders in New Zealand. *Rec. Auckland Inst. Mus.* 8: 47-55.
- 1971 Regional Traditions and Culture History. *New Zealand Archaeological Association Newsletter* 14 (3): 92-97.
- 1971 Review of T. Barrow Maori Wood Sculpture of New Zealand *Mankind*. 8 (1): 80-81.

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STEPHENSON, A. B.

- 1971 Further new records of fish in New Zealand waters. *Rec. Auckland Inst. Mus.* 8: 235-241.

TURBOTT, E. G., JOAN ROBB and

- 1971 Tu'i Malila, "Cook's tortoise". *Rec. Auckland Inst. Mus.* 8: 229-233.

WISE, K. A. J.

- 1971 A preliminary report on the terrestrial invertebrate fauna of the Cook Islands, collected during the Cook Bicentenary Expedition, 1969. *R. Soc. N.Z. Bull.* 8: 55-64.

- 1971 Trapping of air-borne insects on HMNZS Endeavour in the south-west Pacific during the Cook Bicentenary Expedition, 1969. *R. Soc. N.Z. Bull.* 8: 65-66.

- 1971 Entomology of the Aucklands and other islands south of New Zealand: Neuroptera: Hemerobiidae. *Pacific Ins. Monogr.* 27: 53.

WISE, K. A. J., J. L. GRESSITT and

- 1971 Entomology of the Aucklands and other islands south of New Zealand: Introduction. *Pacific Ins. Monogr.* 27: 1-45.

General

DAVIDSON, JANET M.

- 1971 Early Man in New Zealand. *New Zealand's Heritage* vol. 1, no. 2, pp. 29-32.

- 1971 The Auckland Isthmus — 200 years ago. *Auckland War Memorial Leaflet* No. 15.

- 1971 *Te Paki Archaeological Survey*. Mimeographed, 44 pages.

GOULDING, JEANNE H.

- 1971 Phormium or New Zealand flax. *Auckland War Memorial Museum Leaflet* No. 14.

SIMMONS, D. R.

- 1971 Maori Tattooing. *Orientations*. Hong Kong, August, 1971.

- 1972 Comments in "Government steps in on Artifact trade". *Te Maori* 2 (6): 27.

TURBOTT, E. G., R. A. FALLA, R. B. SIBSON and

- 1970 *A field guide to the birds of New Zealand* (2nd edition). Collins, 256pp., illus.

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List of Benefactions

made to the

Auckland Institute and Museum of an amount (or value) exceeding \$100 (£50).

MONETARY GIFTS.

- 1876 Auckland Citizens: £2,026 subscribed towards first building.
1878 Mr. J. C. Firth donated £106 for show cases.
1884 Mr. Edw. Costley bequeathed £12,150.
1887 Mr. David Nathan bequeathed £100.
1897 Mr. T. Russell donated £100 for geological specimens.
1901 Auckland Citizens subscribed £1,000 for Mair Collection.
1902 Mr. E. A. Mackenzie bequeathed £2,500.
1906 Auckland Citizens subscribed £662 for carved houses.
1911 Auckland Citizens subscribed £684 for ancient carvings.
1913 Sir John Logan Campbell bequeathed £1,000.
1921 Institute Members subscribed £115 for Temple Bronzes.
1923 Sir Wm. H. Herries bequeathed £1,000.
1924 Citizens subscribed £698 for Maori collections.
1925 Institute Members subscribed £100 for Maori collection.
1926 Sir James Gunson Presentation Committee presented £118 for
Maori collection. Mr. David Goldie bequeathed £1,000.
1927 Mr. F. Shaw bequeathed £1,000.
1929 Mr. S. J. Ambury bequeathed £250.
1934 Mrs. R. M. Wilson: £50/10/-, given to establish the Sir Edwin
Mitchelson Prize Fund.
1940 Mr. Maurice Harding bequeathed £500.
1941 Mr. Ormsby Gore Adams bequeathed £100.
1942 Mr. J. A. Pond bequeathed £100 to commemorate the scientific
achievements of Thomas F. Cheeseman.
1944 Mr. E. Earle Vaile gave two blocks of shops and residences
worth £10,000 as an endowment for ethnological collec-
tions and books.
Mr. R. C. Horton gave £200 towards extending the mineral
collection.
Sir Albert and Lady Ellis gave £150 for Library book-cases.
£428 received on account of a bequest by Mr. C. V. Houghton.
Mitchelson Prize Fund increased to £100.
1945 Mrs. Bertha Wilson gave £2,000 as an endowment for Cine-
matography.
Auckland Savings Bank gave £500 for improvements to
Exhibition Halls.
Auckland Electric Power Board gave £100.
Mr. R. C. Horton gave £70 for purchase of Georgian Silver
Tea Set.
Sir Cecil Leys and Lieutenant T. H. Leys, R.N.Z.N., gave £500
for purchase of ethnographical specimens.
1946 Mr. E. Earle Vaile: Gave a freehold section with a two-storey
building in Queen Street worth over £30,000 as a further
endowment for ethnographical collections and books.
1947 Auckland Savings Bank Centennial Gift of £5,000.
Mr. A. V. Hanson bequest of approximately £2,000.
1948 Mr. E. P. Mitchelson, bequest of £1,000.

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- 1950 Mrs. Sarah Ann Powley, bequest of £171.
Sir Cecil Leys bequeathed £1,000.
- 1951 Mrs. Bertha Wilson gave £1,000 endowment for photography.
- 1952 Mr. James C. Entrican: Bequest of £1,000 for numismatics.
- 1954 Captain G. A. Humphreys-Davies: Bequest of £500.
- 1956 Sir Albert Ellis, C.M.G.: Bequest of £100.
- Sir Alexander Johnstone, O.B.E., Q.C.: Bequest of £500.
- Sir William Goodfellow: £100 for early English ceramics.
- Sir Carrick Robertson, F.R.C.S.: Endowment of £600 for research on offshore islands.
- 1960 Auckland Savings Bank gave £500 to furnish the Cheeseman Herbarium.
A Member gave £75 towards furnishing the Herbarium.
Mr. W. B. Dixon Stroud gave £142 towards equipping and furnishing the Marine Zoology store and study rooms.
£1000 received from an Institute Member to extend popular science publications.
- 1961 Sir William Goodfellow: £250 towards purchase of van; £150 for purchase of porcelain.
Mr. L. J. Ayre: bequeathed £852.
Auckland Savings Bank gave £600 for equipping the children's hobbies room.
Mr. H. J. Atkinson: bequeathed £685.
Dr. J. A. Clinch: bequeathed £500.
Anonymous: £500 for the memorial halls.
Miss E. L. Hellaby: £100 for the memorial halls.
Institute Member: £200 for exhibition halls.
Sir James Fletcher and colleague firms: Materials for equipping hobbies' room and staff room.
- 1962 Mr. H. D. Buddle: bequeathed £1,000 and many books.
Sir John Logan Campbell Trust: £2,400 grant for display hall.
Miss E. L. Hellaby: £100 for memorial halls.
Mr. John Seabrook: £250 for micro-film reader.
Mr. W. B. Dixon Stroud: \$6,000 for Dr. Powell's molluscan research.
- 1963 Messrs. E. A. Astley and Sons: £100.
Miss C. A. Atkinson: bequeathed £53/14/2.
Auckland Savings Bank: £5,000 for new exhibition halls.
Sir John Logan Campbell Trust: £4,000 for new Hall of Ornithology.
Sir William Goodfellow: £100.
Miss E. L. Hellaby: £100 for memorial halls.
- 1964 Miss E. L. Hellaby: donation of £100.
Miss Josephine McClymont: donation of £200.
Sir John Logan Campbell Trust: £2,500 for exhibition hall.
Auckland Savings Bank: £2,000; administrative area, finishing.
Auckland Lions' Club: £116 for display case.
- 1965 Auckland Savings Bank: £2,000 for Maritime Hall.
Mr W. H. Cocker, C.M.G.: bequeathed £100 for show-case to house collection of sake bottles and snuff bottles.
Miss E. L. Hellaby: donation of £100.
Mr S. Klippe: bequeathed £250.
Mr J. A. Stacey: donation of £100.
Mr W. B. Dixon Stroud: \$4,000 for Dr. Powell's molluscan research.
- 1966 Auckland Maritime Society: £200 towards purchase of Lloyd's Register of Shipping.
Auckland Savings Bank: £2,000 for exhibition halls.
Sir John Logan Campbell Trust: £2,000 for lighting in exhibition halls.

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- Mrs E. E. Fraser:** bequeathed £2,619.
Miss E. L. Hellaby: donation of £100.
Mr C. V. Houghton residuary estate: £627.
 £200 received on account of a bequest by **Mr W. T. King.**
Mrs J. McLennan: bequeathed £1,000 as an endowment for visual aids equipment for school service.
- 1967 **Auckland Savings Bank:** £1,000 for entomological cabinets and equipment.
Sir John Logan Campbell Trust: £1,050 to commission portrait of Sir Winston Churchill by Edward Halliday.
Miss E. L. Donald: bequeathed £500.
Miss E. L. Hellaby: donation of £100.
Mr W. T. King: £955 as residue of bequest.
Mr C. E. Disney: established the Disney Art Trust of £54,483, to enable Dominion Museum, Wellington, and this Museum to obtain Applied Arts material (particularly Oriental and European Applied Arts).
Milne and Choyce Ltd.: The installation "Centennial Street", on the occasion of the firm's centenary; capital cost £8,300.
- 1968 **Auckland Savings Bank:** \$4,000 for Library furnishings, exhibition hall lighting and numismatic displays.
- 1969 **Dr Grace de Courcy:** bequeathed \$1,000.
Mr H. K. McLeod: bequeathed \$1,000.
- 1970 **Sir John Logan Campbell Trust:** \$2,000 to assist with the installation of Hall of New Zealand Birds.
Auckland Savings Bank: \$1,000 to provide equipment for the Marine Biology Department and for lighting in entomological displays.
Mrs M. Briet: bequeathed \$200.
Mr J. A. B. Hellaby: bequeathed \$2,000.
Miss I. T. Stennett: bequeathed \$2,007.
Mr N. R. W. Thomas: bequeathed \$200.
- 1971 **Sir John Logan Campbell Trust:** \$4000 towards Hall of New Zealand Birds.
Auckland Savings Bank: \$1000 towards Hall of New Zealand Birds.
Mrs M. J. Clare: bequeathed \$500.
Mrs M. Hemingway: donation of \$200 for entomological collection maintenance.
- 1972 **Sir John Logan Campbell Trust:** \$4,300 towards Hall of New Zealand Birds.
Auckland Savings Bank: \$3,500 towards Hall of New Zealand Birds.
Anonymous: \$450 for sound equipment in Hall of New Zealand Birds.
Auckland Maritime Society: \$175 for renovation of ship models.
F. E. Jackson and Co. Ltd: Donation of \$100.

SPECIMENS AND BOOKS.

- 1876 **Mr. R. C. Barstow:** Large collection of Maori articles.
 1877 **Mr. G. F. Edmonston:** 564 volumes of scientific works.
 1878 **Mr. T. Russell, C.M.G.:** 34 casts from the antique.
 1878-83 **Mr. J. T. MacKelvie:** 390 books and ethnology collection.
 1887 **Mr. C. O. Davis:** Valuable Maori collection.

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- 1901 Mr. L. D. Nathan: Japanese Shinto Shrine.
1913 Mr. Henry Shaw and Mr. F. Shaw: 172 scientific books. Hon. Sir Edwin Mitchelson: Valuable Kauri Gum collection.
1915 Dr. C. E. R. Bucknill: Collection of Old English Glass.
1916 Mr. Henry Shaw: Collection of Japanese art.
1917 Miss Ruth Northcroft: Large Maori and Polynesian Collection
1919 The Misses Yates: Collection of Indian weapons.
1920 Mr. James Dunning: Collection of North American Mammals.
1921 Mr. W. A. Aldred: Valuable collection of Maori specimens.
Hon. J. B. Turner: Important Fijian ethnographical collection.
1923 Mr. T. F. Cheeseman, F.L.S., F.N.Z.Inst.: The Cheeseman Herbarium of native and foreign plants.
1924 Mr. Wm. Sutherland: Melanesian ethnographical collection.
Mr. A. C. Caughey: Fijian and New Hebridean ethnographical collection.
Mr. R. A. Meek: Ethnographical specimens from Bismarck Group. Messrs. Samuel Vaile & Sons: Large collection of Maori greenstone articles. Sir Cecil Leys and Mrs. Selwyn Upton: The Edge-Partington ethnographical collection of over 2,000 specimens, given in memory of their father, Dr. T. W. Leys.
1925 Mr. F. Crossley Mappin: Valuable Maori and South Pacific exhibits.
1926 Mr. Geo. F. Webster: Valuable Maori antiquities.
Mr. H. R. Butcher: Collection of British coins.
Mrs. E. M. Ball: The Thos. Ball Zoological collection.
Mr. F. Crossley Mappin: Ancient Chinese ceramic specimens
Mr. Hallyburton Johnstone: Silver cup presented by Queen Victoria in 1878 to the Royal George Yacht Club.
1927 Mr. F. Crossley Mappin: Valuable Maori carvings.
Mr. Moss Davis: Valuable ethnographical specimens.
1928 Sir Cecil Leys and Mrs. Selwyn Upton: Unique and richly carved feather box.
Mr. J. R. Adams Wilkes: Ethnographical collections from Nigeria and New Guinea.
Mr. Harry Kinder: The Dr. Kinder Collection—Maori and Melanesian.
Mr. E. Earle Vaile: Important collection of Maori stone carvings and collection of Eastern ethnographical specimens.
Mrs. S. J. Lushington: Large collection of mollusca.
1929 Mr. T. H. Barstow: Maori canoe prows and stern posts.
Mr. W. R. McGregor: New Ireland carved memorial figures.
Mrs., Miss and Mr. A. N. Cooper: The Charles Cooper collection of mollusca.
Rev. W. H. Webster: Large collection of mollusca.
Mr. C. E. Clarke: Large collection of N.Z. Insects.
Executors Mr. W. M. Cole: Stone and Bronze Age Artifacts.
Miss Webster and Mr. G. F. Webster: Water-colour drawings of the Solomon Islands.
1930 Mr. John Kenderdine: Large collection of books and pamphlets, including rare early New Zealand works. Mr. H. E. Vaile: A large collection of Maori implements and greenstone ornaments. Mr. Moss Davis: Selected Maori exhibits; also porcelain and ivory. Mr. L. J. Matthews: Two specimens of Moa eggs. Dr. L. Cockayne: Large collection of N.Z. plants.

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- 1931 Sir Cecil Leys and Mrs. Selwyn Upton: Valuable Maori antiquities: additions to the Dr. T. W. Leys collection. Mrs. S. J. Lushington: Collection of Silver and Sheffield Plate. Mrs. A. C. Lennard: Collection of English porcelain.
Lt.-Colonel A. R. Hughes: Collections of birds and mollusca from Ceylon.
- 1932 Mr. H. S. Dadley: Large and valuable collection of Oriental Arts. Mr. Moss Davis: British Gold and Silver Coins and European Ivories and Bronzes. Hon. Sir James Parr: Gold and Silver Mementoes of public events in New Zealand, and case for their display.
- 1933 Vaile Collection: Additional gift of many valuable Maori antiquities. Mr. W. Goodfellow: Extensive ethnographical collection from Northern Melanesia.
- 1934 Miss Eleanor Brown and Mrs. Geo. Brownlee: Collection of heirlooms of the Ngati-toa and Ngati-awa Tribes. Messrs. R. B. & G. Matthews: The H.B. Matthews Herbarium.
- 1935 Mr. F. Crossley Mappin: Maori Specimens, including handsomely carved sternpost. The Admiralty: Model of H.M.S. New Zealand.
- 1936 Captain G. Humphreys-Davies: Large and valuable collection of Chinese pottery figures. Mrs. T. G. Russell: 235 volumes of chemical and physical works from the library of her father, the late Professor Brown. Mr. E. Earle Vaile: Valuable Maori hei-tiki and Rapa Island stone artifacts. The Estate of the late H. E. Vaile: Maori and Polynesian ethnographical collection; carvings and ornaments.
- 1937 Mr. E. Earle Vaile: Collection of ethnographical specimens and six Italian bronzes. Sir Algernon Thomas: Library of scientific books and papers.
- 1938 Mr. E. Earle Vaile: Gift of many early New Zealand books and journals. Mr. J. R. le B. Tomlin: Gift of valuable early editions of natural history works. Mr. F. Crossley Mappin: Early Chinese Pottery and Bronzes.
- 1939 Mr. E. Earle Vaile: Maori carvings, large Melanesian collection and gifts to the Library. Mr. J. R. le B. Tomlin: Gift of early Worcester china and early works on natural history. Mr. W. Goodfellow: Large Melanesian collection.
- 1941 Mr. H. R. Jenkins: Historic anchor associated with the ill-fated H.M.S. Bounty. Mrs. T. G. Russell: 500 volumes of botanical and biographic works from the library of his father, the late Professor Brown.
Mr. Ormsby Gore Adams bequeathed cinema camera, photographic equipment and nature films.
- 1942 Mrs. A. A. Richardson: The late Mr. J. D. Richardson's extensive collection of early Auckland photographs and lantern slides.
Col. the Hon. F. Waite, D.S.O., M.L.C.: Large collection of Egyptian pre-dynastic artifacts, flints, slate palettes, and pottery 7500-4300 B.C.; also pottery lamps of Egyptian, Roman, Greek and Arabic manufacture.
- 1943 Captain G. A. Humphreys-Davies: His extensive and valuable collection of Chinese arts. Mr. E. Earle Vaile: Large collection of books and pamphlets on exploration and early life in the South Pacific. Mrs. W. H. Hemingway:

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- The late Mr. Hemingway's display and cabinet collections of insects. **Colonel the Hon. F. Waite, D.S.O., M.L.C.:** Further collections from Egyptian Pre-dynastic, Dynastic and Ptolemaic periods.
- 1944 **Mrs. B. Quigley and Miss E. Kenderdine:** Large number of books on early New Zealand history. **Mr. E. Earle Vaile:** Collection of works on South Pacific exploration and New Zealand history. **Captain G. A. Humphreys-Davies:** Ancient Chinese bronze sculpture. **Mr. J. C. Entrican:** Large collection of Eastern Polynesian stone implements.
- 1945 **Mr. W. G. White:** A valuable very representative collection of Worcester and Chelsea China. **Mr. E. Earle Vaile:** Important Maori Ethnographical Collections, and books on South Pacific Exploration and New Zealand History.
- 1947 **Lady Leys Fund, Sir James Gunson Fund, and E. Earle Vaile Fund:** Collection of 60 greenstone hei tiki and greenstone adzes purchased in England.
Mr. Jas. C. Entrican: Gave his extensive collection of medals and coins and library of books on Numismatics.
Mr. Geo. Finn: Presented a collection of books and newspaper records, reports and illustrations collected over a number of years.
Lieutenant A. G. Carnahan, R.N.R.: Presented Viscount Jellie-coe's racing 14-footer "Iron Duke."
- 1948 **Sir Frank Mappin:** 16mm Cine-sound projector.
- 1949 **Mr. and Mrs. J. Yock:** Old English sterling silver salver.
- 1950 **Mrs. J. P. Campbell:** Eighteenth century inlaid sideboard.
Mr. Wm. Goodfellow: Delft vase and other early ceramics.
Mr. V. J. Larner: Early china and delft vase.
- 1951 **Mrs. Goldie:** Twenty portraits of Maoris by the late Mr. C. F. Goldie.
Rev. Harry Johnson: Extensive collection of native arts and crafts from Tanganyika.
Rev. Charles Palmer: Melanesian ethnographical collection; mementoes of Bishop Selwyn and early New Zealand books.
Mr. W. J. Crowther: Selected examples of English porcelain and eighteenth century silver plate.
- 1952 **Mr. E. Earle Vaile:** Selected early works on discovery and exploration in the Pacific.
Sir Frank Mappin: Eighteenth century silver and Sheffield plate.
New Zealand Insurance Company: Suite of large cabinets and library furniture.
Mr. William Goodfellow: Three Maori portraits by Lindauer.
Sir Carrick Robertson: Collection of Zulu ornaments.
Lieut.-Commander J. F. A. O'Neill, D.S.C.: Ethnographical collection from Tikopia.
Miss W. S. Dudley and Miss Jean Robertson: Pencil and wash drawings of early New Zealand, by Major Charles Heaphy.
- 1954 **Mrs. Robert Cooper:** Collection of botanical books and book-cases.
Sir Frank Mappin: William and Mary walnut cabinet and early seventeenth century chairs.
Mrs. P. Sklenars: Model of four-masted barque "Pamir" made by her father, Mr. W. S. Nelson.

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- 1955 **Dr. J. A. Clinch:** English silver and Sheffield plate.
Sir Ernest and Lady Davis: Portrait of Sir Edmund Hillary, K.B.E.
Mrs. A. M. Ferguson, O.B.E.: Maori and Oceanic ethnographical collection.
Mr. C. Roose: Set of 2000 charts of the Pacific.
Mr. G. J. H. Ovenden: Full set of publications of Palestine Exploration Fund.
Wellcome Museum Trustees: extensive selection of ethnological specimens.
- 1956 **Miss E. Blumhardt:** Large set of her paintings of native flowers.
The Misses C. M. and I. F. Stewart: Collection of Maori greenstone ornaments and weapons.
Sir Ernest Davis: Portrait of H.M. the Queen.
Mr. John Pybus: Five moa skeletons from Waitomo district.
- 1958 **Rev. Canon Hubert Jones:** Sets of English West-County history.
- 1959 **Mrs. R. Rose:** English Sheraton Cabinet and Japanese lacquer and inlay cabinet.
Dr. Marjorie Young: Collection of ethnographical specimens from New Guinea highlands.
Sir Frank Mappin: English eighteenth century mahogany bureau-secretaire.
- 1960 **Farmers Trading Company's Jubilee gift of a Spitz Planetarium** with full range of accessories, the planetarium building and furnishings.
Sir Ernest Davis: Portrait of Lord Freyberg.
Sir Frank Mappin: Two oil paintings for council room and exhibition hall.
Mr. L. J. Ayre: Extensive philatelic collection and a monetary bequest.
Miss Lina V. Bruce: 18th century north country spinning wheel.
Mrs. Susan Payne: library cabinets, philatelic and ethnographical collections.
- 1961 **Mr. Leo White:** Series of coloured wall display photographs of Auckland.
Auckland Citizen: Portrait of His Excellency the Governor-General.
Northern Steamship Company: Builder's model of "Whakatere" and "Manaia".
Union Steamship Company: Builder's model of "Ormonde".
- 1962 **Mrs. Blanche Halcombe:** books, collections of native birds and ethnological articles.
Sir Ernest Davis: large model sailing ship.
Mrs. E. E. Goodhue: collection of Northland greenstone ornaments.
Miss M. F. Hoole: bequeathed a Sheraton sofa table.
Dr. and Mrs. J. L. Newman: large Chinese silk and gold embroidery.
The Countess of Orford: Water colour drawing of Auckland by J. C. Hoyte.
Mrs. G. R. S. Fisher: Notable examples of early English-Continental lace.
- 1963 **Sir John Logan Campbell Trust:** Library furnishings.
Mr. W. Kingsley: collection of books on Naval history.
Mr. E. F. Hilton: large collection of shells including rare species; Northern Australia and Tropical Pacific.

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- 1964 Miss J. Winifred Shaw: Chinese lacquered work-table.
Sir James Gunson: silver model of first War Memorial building.
Mr. L. Alfred Eady: early Collard piano.
Mr. Peter A. N. Nathan: Chinese carved screen.
Mr. Lacy K. Neilson: Maori carved pataka base.
Mr. A. D. W. Walcott: Merlin air engine.
New Zealand Insurance Company: Board-room tables, chairs and book-cases.
Mr. C. W. Hawkins: Models of Auckland sailing ships.
Mr. N. R. W. Thomas: Set of book-shelves.
Mr. C. A. Gordon: Bequest of several thousand books.
Mr. R. B. Sibson: Descortilz, Ornithologie Bresilienne.
Mr. E. J. Mitchelson: Dressing table of New Zealand woods.
Mrs. Doris Gordon and Miss Gladys Holman: Drawings by John Johnson, first Colonial surgeon.
Mr. W. H. Cocker, C.M.G.: collections of Japanese sake bottles and snuff bottles and £100 for show-case.
- 1965 Mr. P. A. Lawlor: Walpole collection: books and pamphlets.
Mr. James Pascoe: Two Dresden vases.
Lady Richmond, Mrs. H. Kinder, Mr. P. B. Phillips: nine paintings of vessels of the Craig Line.
Mr. J. F. Stewart: Tokipoutangata, mere pouamu and kotiate.
- 1966 Auckland City Council: Collection of three-dimensional items formerly part of the Old Colonists Museum.
- 1967 Mr. Noel Cole: Portrait of Sir Peter Buck (Te Rangi Hiroa).
Mr V. C. Cooper: Collection of New Zealand and Australian stamps.
Lady Mappin: Georgian ball gown.
Sir Frank Mappin: Collection of European arms and armour, and oak dining table.
Royal New Zealand Navy: Model of H.M.N.Z.S. "Royalist", ship's book and other relics of H.M.S. "Philomel".
- 1968 Mr. R. W. W. Archer: Set of New Zealand coins for each year of issue up to 1965.
Auckland Studio Potters: Collection of Japanese pottery, and two studio pots by Michael Cardew.
Mr. C. E. Disney: Turkish plate.
Mrs. Helen Mason: Collection of studio pottery.
Mr. D. MacAlister: Collection of Staffordshire pottery.
- 1969 Wilson and Horton Ltd: Comprehensive set of files of the "New Zealand Herald", "Weekly News", "Southern Cross", "New Zealander" and other early Auckland newspapers.
- 1970 From an anonymous gift for purchase: Collection of Persian carpets, 17th-18th century; collection of Asian ceramics.
- 1971 The Cozens family (per the Misses E. M. and E. L. A. Cozens): Collection of Pacific ethnographic material collected by the late Captain G. Cozens.
Mrs M. M. Dunningham: Han Period painted water pot, 2nd century B.C.
- 1972 The Rt. Hon. Sir Harold Barrowclough: Portrait in oils by William Dargie.
Mr D. J. Quigley: Ngati Whatua door lintel, South Kaipara Head.
Mr Rewi Alley: Ch'eng Hua enamel bowl.

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ACCESSIONS 1971 - 72

- Mrs J. C. Abercrombie: Typewriter.
Estate of W. B. Abraham: Maori carved inkstand.
Mr Rewi Alley: Two bowls, animal figurine, plate, collection of sherds, scroll.
Mrs C. Andrell: Jacket, bodice, skirt, coat, bonnet.
Mr H. W. Annison: Two military uniforms.
John Dixon Antiques: Porcelain plate, beaker.
Mr W. Atkinson: Shell for Maori trumpet.
Auckland City Council: Two plaques, commemorative of City of Auckland Centennial.
Mrs N. Barker: Three kits, kiwi feather.
Dr N. C. Baskett: Grindstone.
Mr W. A. Baverstock: Eleven stone flakes.
Mr W. K. A. Berry: Throwing stone, blade end of stone adze.
Mr and Mrs L. Birks: Pottery finger bowl.
Mr A. T. Bowie: Scottish military uniform.
Messrs M., D. and J. Bradbury: Two stone pounders, moa bone.
Mrs B. Brookes: Earthenware beaker, vase.
Mrs G. K. Brown: Two dishes, two plates.
Mr M. J. Brown: Rock sample.
Dr R. N. H. Bulmer: Two wood shields, one wood sculpture.
Mrs J. R. Buttle: Three foreign flags.
Miss B. Bywater-Lutman: Carved adze handle.
Mr R. Cadness: Stoneware vase.
Mrs B. A. L. Cailliau: Piano tuning manual, two pairs spectacles.
Air Commodore D. Caldwell: Sidcote.
Mr L. Castle: Seven pieces of earthenware.
Mr L. Cobb: One drill point, one stone adze.
Mrs M. S. Cook: Collection of butterflies.
Miss H. Cooper: Collection of mounted birds.
Mrs Ruth Coyle: Book of ferns, mosses and seaweeds.
Mr J. Crowther: Stone axe.
Mrs M. Curach: Four cushion covers, table cloth.
Mrs Cutten: Armchair.
Master Simon Dallaway: Stone adze.
Mr C. Davies: Two stone adzes.
Mr G. F. Dengate: Apple corer.
Mrs M. Dunningham: Stoneware plate.
Mr F. G. Fairfield: Maori artifacts, flake material.
Mr J. E. Fitzpatrick: Lump of black pitch.
H. E. Kenneth Franzheim II: Set of 8 medals.
Mr L. K. Gillian: Medals.
Mrs E. Goldsmith: Medals.
Miss Goulstone: Table wringer.
Mrs Q. Gower-Jones: Ostrich feather, traveller's tea set.
Dr R. C. Green and Dr S. M. Mead: Ethnographic material, pottery sherd.
Mr B. H. Gumbley: Blade end of stone adze.
Mrs Tania Harris: Lace fichu.

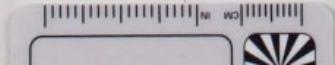
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Mr A. W. Hepburn: Two spirit levels, eye glass.
Mrs Hepwell: Butter pats.
Miss E. M. Houghton: Two lyrebird tails.
Mrs W. E. H. Howie: Piccolo, fife, set of musical bones, greenstone ear pendant.
Mrs G. Hutchison: Trowel, whistle, tin of matches, pen-knife, badge.
Mrs Lynne Izzard: Ethnographic material.
Mrs F. Jakich: Stone adze.
Messrs R. G. W. Jolly and C. J. Murdoch: Archaeological assemblage.
Miss O. Jones: Painting.
Mrs T. M. Jones: Pottery head of horse.
Mrs G. Kalbus: Testing pots.
Kings College Bird Club: Ten bird skins.
Miss H. Kirkwood: Ethnographic material.
Mrs Kromfeld: Pieces of shell.
R. J. Laing Bequest: Stone adze.
Mr and Mrs J. Lamont: Tapa beater.
Mr R. Lapwood: Two heads carved in kauri gum.
Mr H. Larsen: Austrian pipe.
Mr B. Laxon: Pharmaceutical items.
Miss A. Leahy: Potsherds.
Mrs M. Leighton: Two stoneware bowls.
Mr C. Leslie: Fern specimens.
Mr A. and Miss Lush: Blade end of stone adze.
Mr J. McDonald: Flask.
Mackelvie Trust Board: Ecology medal, atomic science medal.
Miss M. MacNab: Parasol.
Mrs J. Martin: Piece of wooden spear.
Mr McAra: Lacquer box.
Mr J. H. S. McGregor: Army uniform and accoutrements.
Mrs E. M. McKellow: Medals.
Mrs Elyn C. McKenzie: V.A.D. uniform and badges.
Mrs Vera McMullen: Reboza (woven shawl).
Mrs N. J. Meeyus: Tobacco tins and match box.
Mr I. M. Miller: Mounted kiwi.
Milne & Choyce: Tea cosy and cover.
Mrs Margaret Milne: Lidded box and jarlet.
Mr R. S. Milne: Buttonhook.
Mr T. J. Moresby: Adze, and blade end of adze.
Mrs M. Morpeth: Vase.
Miss A. Mary Morton: Dress, lace cap, posy holder, silver cross pendant and chatelaine.
Mr O. Murch: Ethnographic material.
Mr C. G. Murdoch: Piece of red obsidian.
Nuphil Associates: Commemorative medal (Amundsen-Scott).
Miss A. O'Neill: Two Wedgwood dishes.
Lt.-Commander J. F. A. O'Neill: Flag captured in Zulu wars, white ensign of H.M.N.Z.S. *Kiwi*.
Mr B. Parkinson: Head-dress.

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- Miss B. S. Parris: Dried specimens of New Zealand plants.
Miss R. M. Peek: Tyrolean pipe.
Mrs H. G. Pickering: Fiji newspaper.
Mr E. D. Pritchard: Collection of Collembola, Isoptera and other insects.
Master Daniel J. Quigley: Door lintel, digging stick.
Mrs L. G. Raddeker: Sailor's uniform.
Mr C. F. Reeder: Copper nail.
Mrs Mary Richards: Three silver medals.
Miss C. Richardson: Medals.
Mr R. V. Roberts: Collection of eggs.
Lady Robertson: Two whale teeth, paper knife.
Mrs B. Rowarth: Brocade dress.
Mrs E. Rutledge: Two Gouldian finches and nest, glass shade.
Miss Claire Scott: Three albums of water colour sketches, 80 specimens of dried ferns.
Miss Ngaire Scott: Two pieces of studio pottery.
Mr and Mrs K. Skinner: Ethnographic material.
Mrs Frances E. Smeed: Grooved stick.
Mr C. Smith: Ship's cabin clock.
Dr L. Cranwell Smith: Box of Dr Cockayne's botanical photographs.
Mrs M. Springhall: Medals.
Mrs C. Steel: Carved stick, carved wooden sword.
Mr and Mrs P. Stichbury: Four pieces of studio pottery.
Mr F. R. Stone: Wooden club.
Mr and Mrs G. G. Stringer: Corkscrew.
Miss J. Swan: Blade end of large adze.
Mrs Swier: Fan.
Mrs E. Taylor: Regimental badge.
Mr and Mrs G. C. N. Taylor: Barber's bowl.
Mr F. Thorpy: Pottery fragments, small marble model of sacrificial altar.
Mr A. Tolich: Stone adze.
Mrs Trembath: Stone adze.
Mr E. G. Turbott: Wood plane.
Mr J. W. Turnbull: Tapa.
The late Mrs Elsie Cumming: Greenstone earring.
Mr T. E. Welch: Collection of badges.
Mrs E. Weston: Collection of lace.
Sister R. M. White: Parasol, fan.

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AUCKLAND INSTITUTE AND MUSEUM

BALANCE SHEET AS AT 31 MARCH 1972

E. G. TURBOTT,
Treasurer.

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AUCKLAND INSTITUTE AND MUSEUM

INCOME AND EXPENDITURE ACCOUNT for the Year Ended 31 March 1972

	EXPENDITURE		INCOME	
	1972	1971	1972	1971
Salaries and Wages	135,302	120,678		
Superannuation	5,745	3,166		
	142,047	123,844		
Administration Expense —			INCOME	
Audit Fee	375	281	1972	1971
Cleaning, Laundry and Custodial	2,237	1,321	\$	\$
Councillors' Travelling	204	34		
Freight and Cartage	149	237	Contributions from Local Authorities —	
General	1,604	1,155	Metropolitan and Provincial	
Heating, Lighting and Water	5,433	3,715	Statutory	185,000
Insurance	2,466	2,085	Provincial Voluntary	3,576
Legal Fee	—	965		159,000
Postages, Telephones and Inter- com.	3,101	2,208		4,615
Printing and Stationery	3,080	2,869		
Rates — Auckland City Council	10,419	21,132	188,576	163,615
Staff Removal	1,676	181		
Travelling	1,031	1,332		
	31,775	37,516		
Preservation and Display —			Subscriptions —	
Preservation Material	555	918	Life Members'	
Preparation and Taxidermy	1,538	1,412	Annual	920
Extension Service	2,048	1,593		320
Special Exhibitions	3,109	155		4,525
Photography	58	442		4,370
Cook Expedition	—	250		
	7,308	4,770		5,445
Institute —				4,690
Expense	1,722	1,967		
Subscriptions written off	255	274		
	1,987	2,241		

Repairs and Maintenance —			Income from Sales and Services —		
Building	10,000	8,000	Coffee Lounge, net	5,592	4,128
Electrical Fittings	3,399	895	Exhibition Hall	134	215
Showcases and Furniture	816	499	Guided Tours	195	308
Equipment and General	1,168	1,191	Planetarium	1,090	1,100
			Shop, net	6,845	2,513
	15,383	10,585			
Depreciation of Motor Vehicle	750	750		13,856	8,264
Sales and Services —					
Auditorium, net	852	1,121			
Publications	3,491	1,528			
	4,343	2,649			
Unauthorised Expenditure —					
Entertainment of guests, etc	299	224			
Balance transferred to Appropriation Account	13,035	2,102			
	\$216,927	\$184,681		\$216,927	\$184,681

APPROPRIATION ACCOUNT
For the Year Ended 31 March 1972

	1972	1971		1972	1971
	\$	\$		\$	\$
Balance as at 1st April	5,060	—	Balance as at 1st April	—	79
Capital Expenditure from Revenue	16,288	8,449	Balance from Income and Expenditure A/c.	13,035	2,102
Capital Expenditure from Reserves	12,092	23,749	Transfer from Auckland Savings Bank Grant	3,500	1,000
Capital Expenditure from Trusts	608	982	" " L. J. Ayre, Philately	83	120
Lie Members' Subscription Endowment	920	320	" " Sir John Logan Campbell Trust	4,797	4,931
Less on Sale of Investments	4	—	" " J. C. Entrican, Numismatics	9	411
			" " Mackenzie Library Bequest	516	452
			" " Dixon Stroud Fund	—	208
			" " Specimen Purchase Fund	856	3,823
			" " Building Reserve	—	8,354
			" " Costley Bequest	—	5,400
			" " Publications Reserve	3,491	1,528
			" " Leys, Ethnographic Specimens	200	—
			" " Auditorium Fund	2,738	—
			Balance carried down	5,747	5,060
				\$34,972	\$33,500

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STATEMENT OF
TRUSTS; SPECIFIC AND GENERAL ENDOWMENTS; RESERVES, GIFTS, GRANTS AND PROVISIONS

Description	Capital Balance 1/4/71	Income Dr	Balance 1/4/71 Cr	Interest	Other Receipts	Total Income	Payments	Detail	Income Balance 31/3/72 Dr	Capital Balance 31/3/72 Cr	Total Balance
TRUSTS											
Accumulating Endowment	1,779.92			93.44		93.44				1,873.35	1,873.36
H. G. Atkinson — Research	1,478.48		570.31	77.62		647.93	50.00	I & E A/c.	597.93	1,478.48	2,076.41
L. J. Ayre — Philately	1,777.92	10.30		93.34		83.04	83.04	Appn A/c.	—	1,777.92	1,777.92
J. C. Enrican — Numismatics	2,000.00		471.53	105.00		576.53	8.80	Appn A/c.	567.73	2,000.00	2,567.73
Mackenzie — Library	4,000.00		249.73	210.00		459.73	516.73	Appn A/c.	4,000.00	3,943.00	
Janet McLennan — School Service	2,000.00		595.00	105.00		700.00			700.00	2,000.00	2,700.00
Mitchelson Prize	400.00		144.81	21.00		165.81			165.81	400.00	565.81
Museum Endowment	28,232.44			1,482.20		1,482.20	1,482.20	I & E A/c.		28,232.44	28,232.44
Pond Cheeseman Bequest — Commemoration Prize	290.00		111.82	15.23		127.05	40.00	I & E A/c.	87.05	290.00	377.05
Sir Carrick Robertson — Research	1,200.00		394.58	63.00		457.58	25.40	I & E A/c.	432.18	1,200.00	1,632.18
Edward Earle Vaille — Ethnology, Library	245,108.85		5,253.58	10,814.21	11,443.55	27,511.34	24,715.37	Vaille A/c.		2,795.97	245,937.85
Bertha Wilson — Cinematography	4,000.00		1,976.36	210.00		2,186.36				2,186.36	248,733.82
Bertha Wilson — Photography	2,000.00		416.19	105.00		521.19				4,000.00	6,185.35
	294,267.61	10.30	10,183.91	13,395.04	12,272.55	35,841.20	26,921.54		57.00	8,054.22	295,190.05
											303,187.27
GENERAL ENDOWMENTS											
Costley Bequest	10,000.00			500.00		500.00	500.00	I & E A/c.		10,000.00	10,000.00
Houghton Bequest	1,047.56			52.38		52.38	52.38	I & E A/c.		1,047.55	1,047.56
Life Members' Subscriptions	16,476.64			823.83	920.00	1,743.83	823.83	I & E A/c.		17,395.64	17,395.64
	27,524.20			1,376.21	920.00	2,296.21	1,376.21			28,444.20	28,444.20

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RESERVES, GIFTS, GRANTS AND PROVISIONS

	44.35	1.55	1.55	1.55	Appn. A/c. I & E A/c.				45.90	45.90
Auckland Crete Veterans' Association Showcase										
Auckland Savings Bank — Exhibition Hall	23,266.41	814.32	3,500.00	3,500.00	3,500.00				30,873.34	30,873.34
Sir John Logan Campbell Trust — Exhibition Hall	495.96		4,300.00	4,300.00	4,795.96	Appn. A/c.				
Clinch — Photographic Equipment	1,091.14	38.19	38.19						1,129.33	1,129.33
Depreciation of Investments	1,133.16	39.66	39.66						1,172.82	1,172.82
Depreciation of Auditorium Assets	1,000.00	35.00	1,000.00	1,035.00					2,035.00	2,035.00
Depreciation of Coffee Lounge Assets	5,190.75	181.68	1,078.30	1,259.98	392.20				6,058.53	6,058.53
Depreciation of Motor Vehicles	4,002.72	34.20	1,500.00	1,534.20	2,589.20				2,947.72	2,947.72
Depreciation of Shop Assets	313.00	10.95	1,387.17	1,398.12					1,711.12	1,711.12
Educational Publications	3,063.17	107.21		107.21					3,170.38	3,170.38
Ellis — Ethnographic Specimens	245.84	8.60		8.60					254.44	254.44
Horton — Geology	284.27	9.95		9.95					294.22	294.22
Leys — Ethnographic Specimens	2,049.68	71.74		71.74	200.00	Appn. A/c.			1,921.42	1,921.42
Memorial Halls	6,287.84	219.02	49.71	268.73					6,526.57	6,526.57
Nuffield Grant	1,701.10	59.54	997.89	1,057.43	846.52	I & E A/c.			1,912.01	1,912.01
Oceanographic Grant	230.19	8.06		8.06	31.50	I & E A/c.			206.75	206.75
Publications Reserve	14,806.74	518.24		518.24	3,490.96	Appn A/c.			11,834.02	11,834.02
Reserve for Building Additions	1,000.42	35.01	500.00	535.01					1,535.43	1,535.43
Special Visitors' Fund	614.62	21.51		21.51					636.13	636.13
Specimen Purchase	1,116.59	39.08	1,491.50	1,530.58	856.58				1,790.59	1,790.59
Stroud Fund	177.76	6.22		6.22					183.98	183.98
Sword Purchase	12.26	0.43		0.43					12.59	12.59
Vaile Obsolescence Fund	15,275.23	534.63	400.00	934.63					16,209.86	16,209.86
	83,374.20	2,794.79	22,997.18	25,791.97	16,703.92				92,462.25	92,462.25

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EDWARD EARLE VAILE ENDOWMENT AND BEQUEST ACCOUNT
(A summary of this account is included in the Statement of Trusts)

	1972	1971		1972	1971
	\$	\$		\$	\$
Capital Expenditure —					
Collections	3,405	3,806			
Library	7,940	6,205			
	<hr/>	<hr/>			
	11,345	10,011			
Archaeology —					
Salary, Wages & Superannuation	6,311	4,774			
Travelling and Field Expense	761	1,021			
	<hr/>	<hr/>			
	7,072	5,795			
Transfer to Obsolescence Fund	400	400			
Interest on Obsolescence Fund	535	503			
	<hr/>	<hr/>			
	935	903			
Balance carried down	2,796	5,254			
	<hr/>	<hr/>			
	\$22,148	\$21,963			
Rents Received —					
Less Expense —					
Commission	503	638			
Insurance	496	536			
Rates	1,545	1,397			
Repairs and Maintenance	2,820	832			
	<hr/>	<hr/>			
	5,364	3,403			
Net Rents					
	6,080	8,433			
Interest and Dividends —					
Term Deposit, Bank of NZ	1,119	972			
Local Authority Stock	1,035	770			
NZ Government Stock	570	570			
Trust Companies	7,697	7,415			
Dividends	393	323			
	<hr/>	<hr/>			
	10,814	10,050			
Balance brought down	5,254	3,480			
	<hr/>	<hr/>			
	\$22,148	\$21,963			

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Kissin, Joseph
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Lennard, L. M.
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McCay, Rev. S. J. D., M.A.
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McPhail, Surgeon Captain E. S.,
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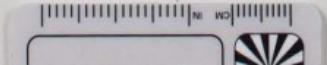
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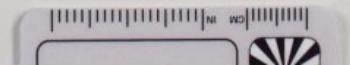
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